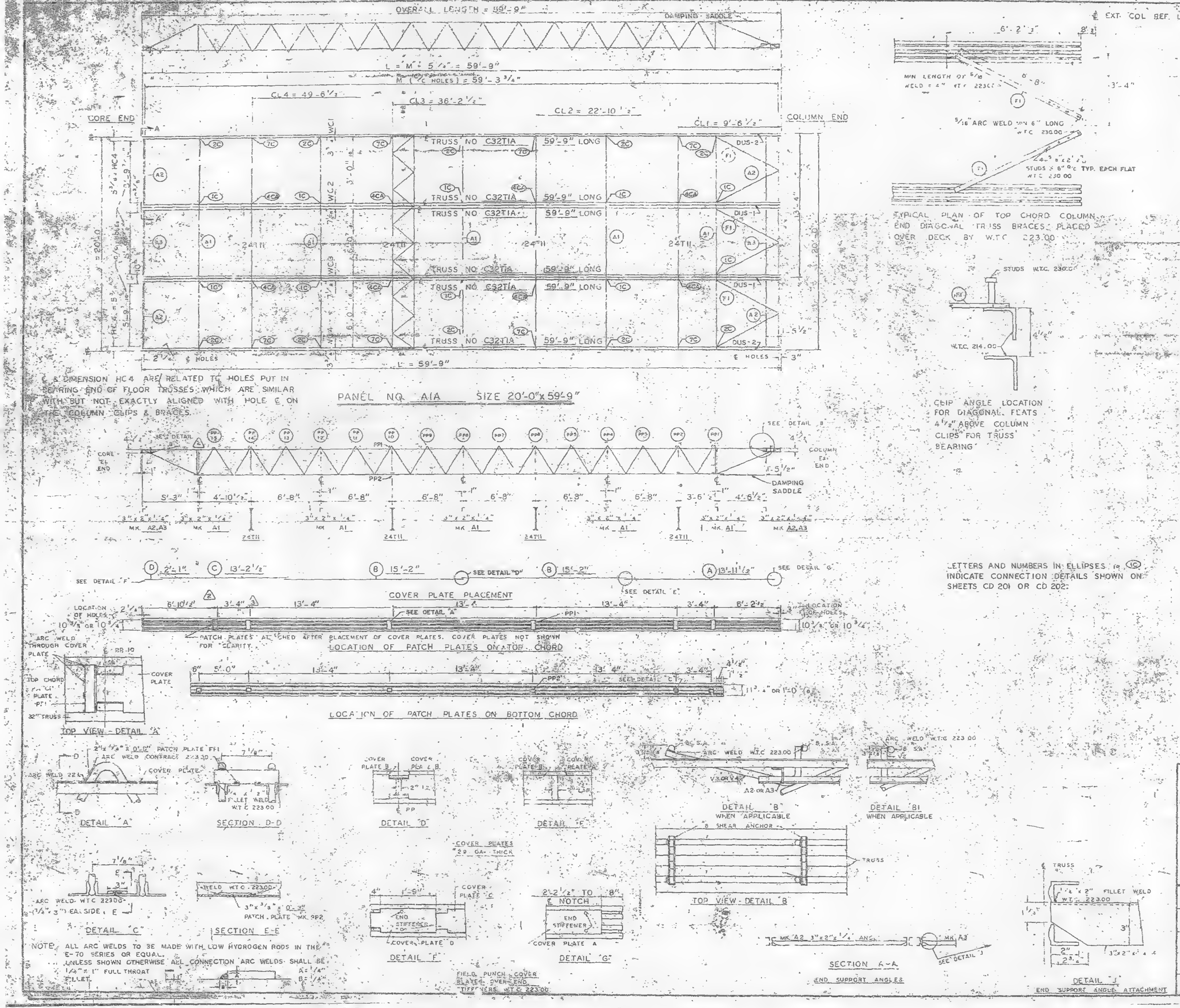


℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-[illegible]	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-5 7/8"	ST298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	2	[illegible]" ⌀ x [illegible]-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 3 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
4	5-13-69	AS NOTED	G.D.C.
3	3-11-69	AS NOTED	G.D.C.
2	2-17-69	AS NOTED	G.D.C.
1	7-12-68	GENERAL	T.M.C.

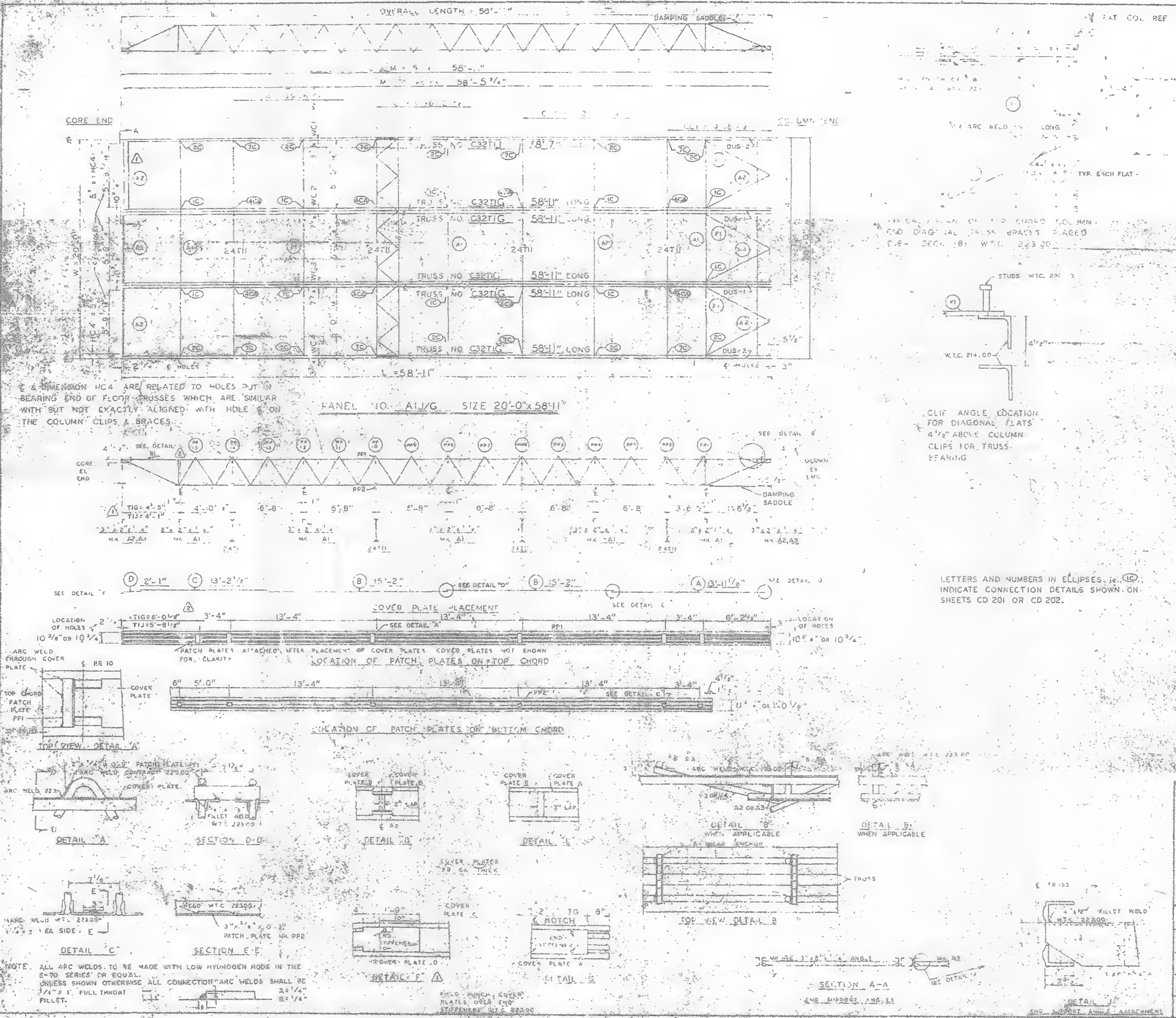
REF DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
4	SA-124	1-6-68
	7-AB3-2	1-3-68
	7-AB1-2	7-22-68
	7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH); 49-58, 60-66, 68, 69 (NORTH) PANEL A1A 20'-0" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST) 4

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3 PLATE	
APPROVED FOR FABRICATION BY James White FOR P.N.Y.A.	DATE 1/2/70	DRAWN BY L.R. DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C 221	SHEET NO. FP A1A



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIG		C32TIG - 58'-11"	ST201G
	TIJ	1	C32TIJ - 58'-7"	ST201J
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	ST211
3 x 2 x 1/4 ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	5	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	12	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	RJP
1	10-21-68	AS NOTED	G.D.L.

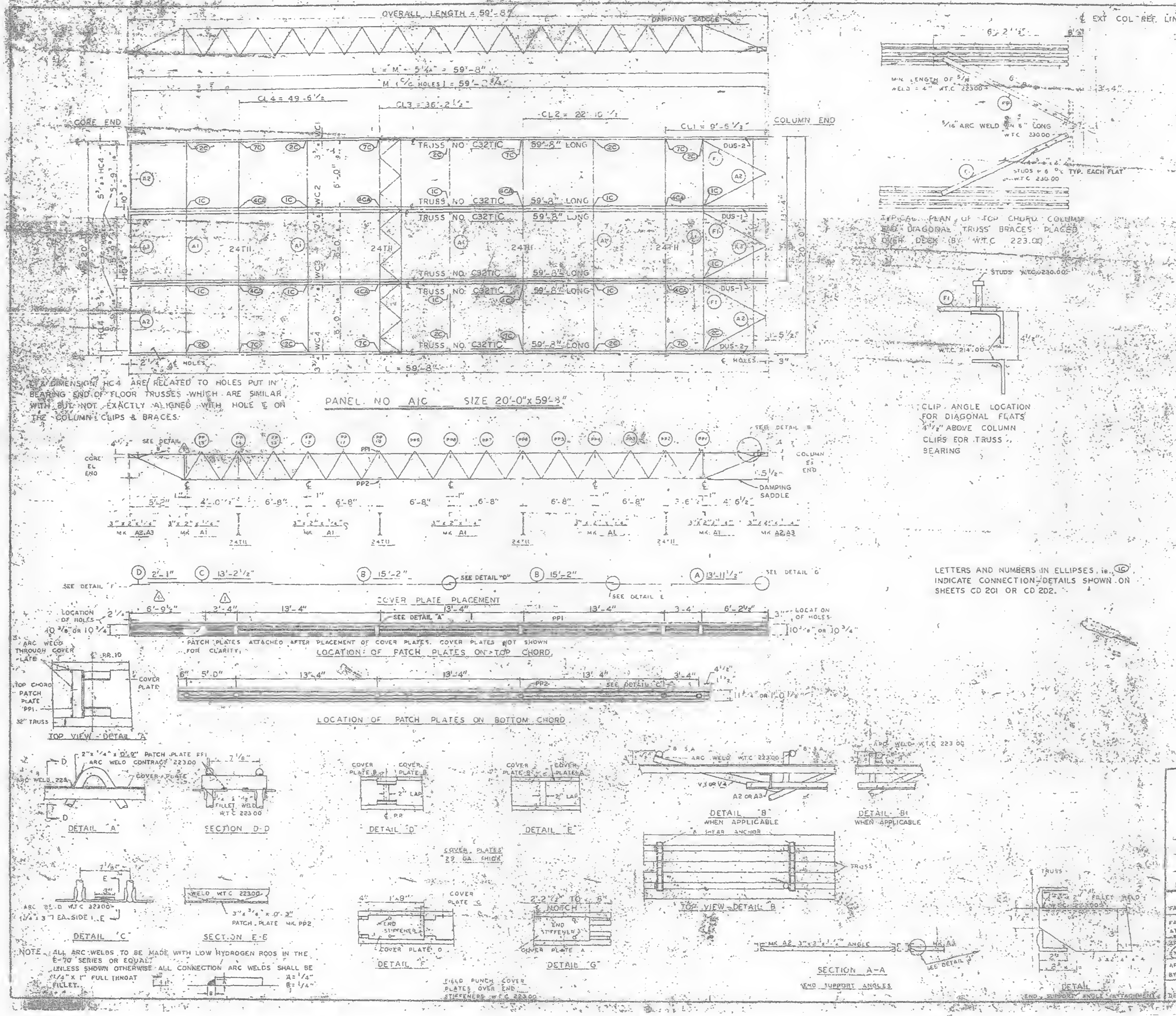
REF. DRWG.

7-AB4-3	10-15-68
2-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-5	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 40 (N)
PANEL A1
BLDG. B FLOORS 40 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-2
APPROVED FOR FABRICATION BY FOR PONYA
DRAWN BY
DATE FEB 23 1968
APPROVED FOR FABRICATION BY
CHECKED BY T. CHURA
DATE OCT. 1968
DETAILED BY A.L. WEBER
FABRICATION CONT. NO. WTC 221
CD 410



DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK (BY W.T.C 223.00)

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1C	6	C32T1A - 59'-8"	ST201C
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST400
	PP2	24	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	4	9"x .0135"x 13'-11 1/2"	ST303
	B	8	9"x .0135"x 15'-2"	ST303
	C	4	9"x .0135"x 13'-2 1/2"	ST303
	D	4	9"x .0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x 1 1/2"x 1/4"x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x 3/8"x 8 1/2"	ST400
	P2	8	4 1/2"x .39"x 0'-9"	ST400
	P3	8	4 1/2"x .39"x 1'-0"	ST400

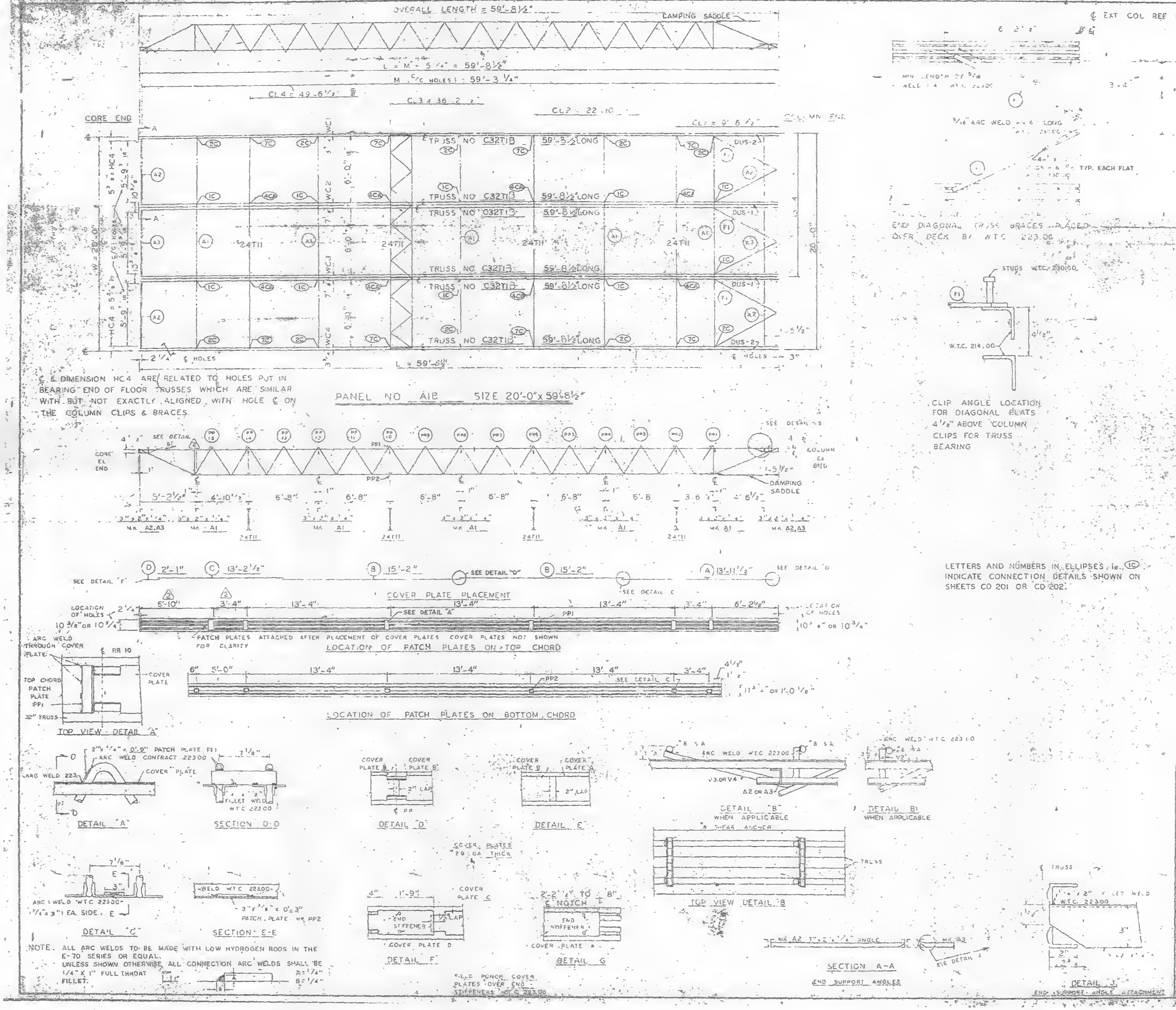
NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	R.J.

⚠1 REF. DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4 41	7-22-68
SA-124	1-6-69
7-AB3-2	1-13-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]
PANEL [illegible] 0" x 59'-
BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3
PLATE
APPROVED FOR FABRICATION BY James W. [illegible] FOR P.O.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT 11, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP A1C



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T13	6	C32T13 - 59'-8 1/2"	ST201
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	B"21.
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 40[illegible]
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	6	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS 2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	10-21-68	AS NOTED	G.D.C.

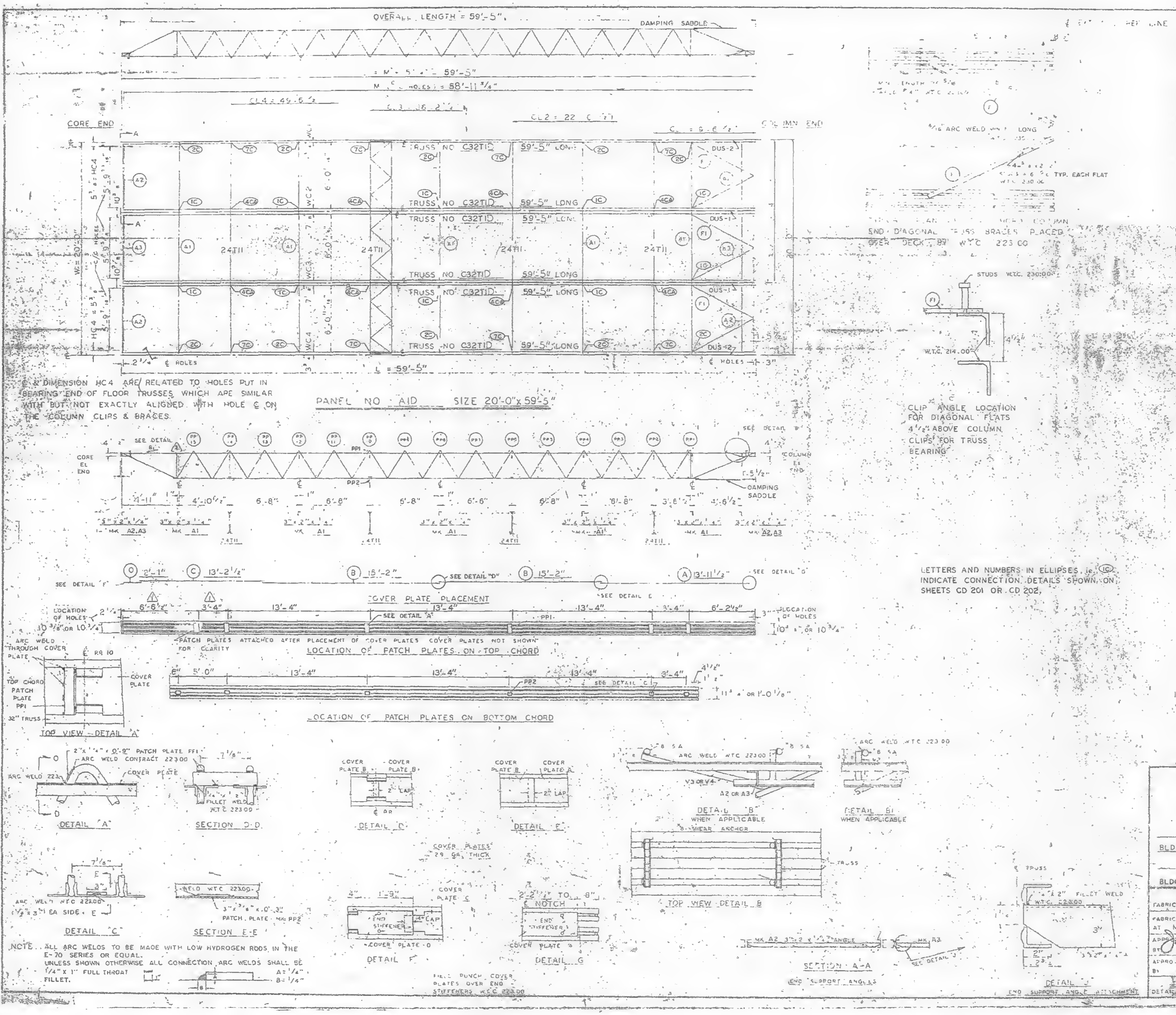
REF DRWG

	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
2	SA-124	1-6-69
	7-AB3-2	11-3-68
	7-AB1-2	7-22-68
	7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (NORTH) 1
PANEL A13 ℄ 9" ± 59'-8 1/2"
BLDG. B FLOORS 83-91, 93-106 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-3
PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A DATE 1/2/70
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A.C. WEBER
DRAWN BY [illegible] DATE FEB 24, 1968
CHECKED BY I. CHURA DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO W T C 221
SHEET NO. FP A13



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	6	C32T1D - 59'-5"	ST201D
BRIDGING TRUSSES	T1	4	24T11 - 19'-11"	B1211
[illegible] ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 401
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 401
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST 403
CONNECTION PLATES	P1	10	3 1/2"x3/8"x8 1/2"	ST 400
	P2	8	4 1/2"x.39"x0'-9"	ST 400
	P3	8	4 1/2"x.39"x1'-0"	ST 400

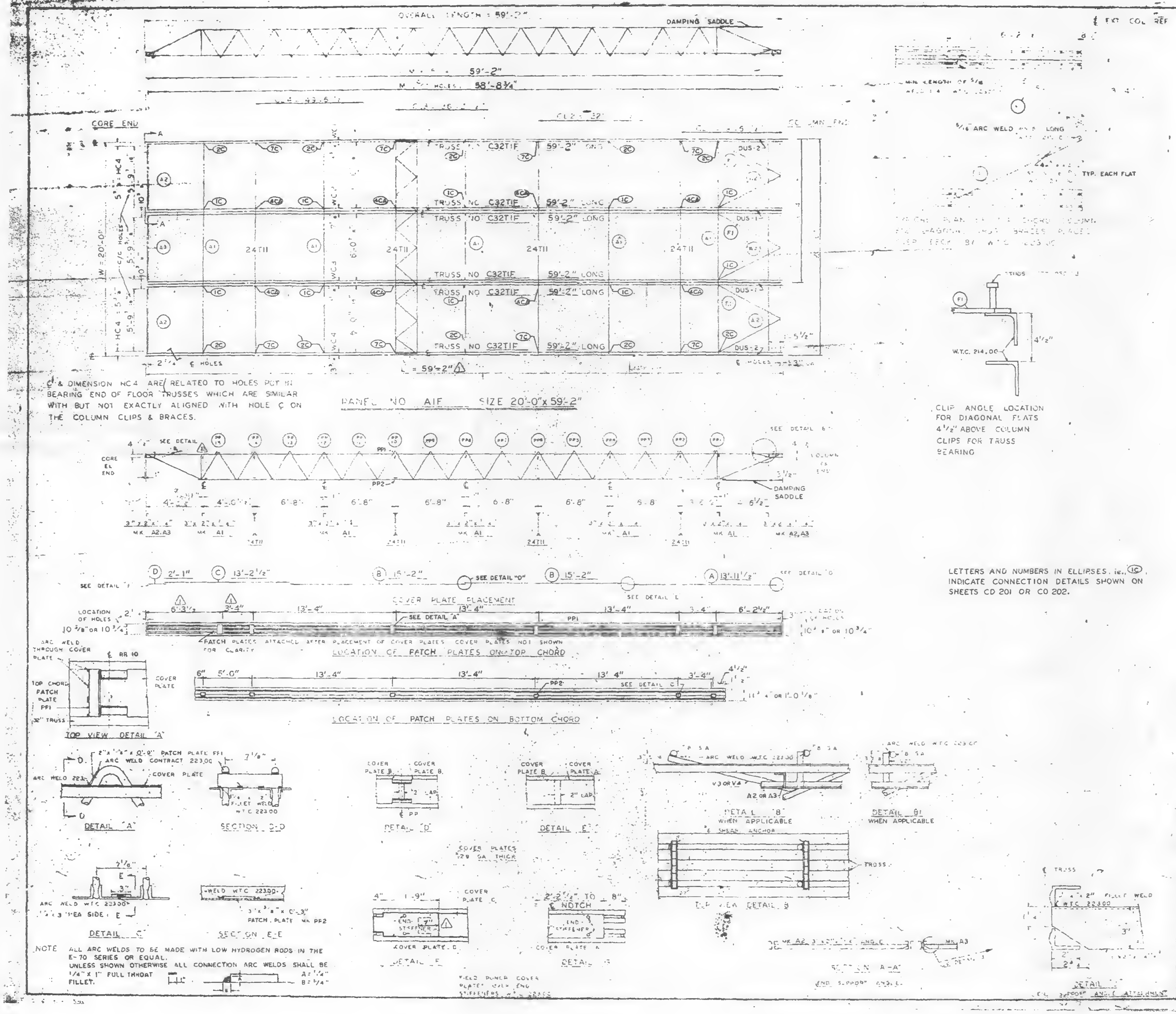
NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	BJF

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 (N)
PANEL AID ℄ 59'-5"
BLDG. B FLOORS 81-82 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHUBA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]		FABRICATION CONT. NO. WTC 221	SHEET NO. FP-AID



Ç & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Ç ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL FP PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	TIF	6	C32TIF - 59'-2"	ST201F
BRIDGING TRUSSES		4	24TII 19'-11"	
BRIDGING ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 1/8"	403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 3/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	12	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

⚠1	5-27-69	AS NOTED	RJP
NO.	DATE	REVISION	BY

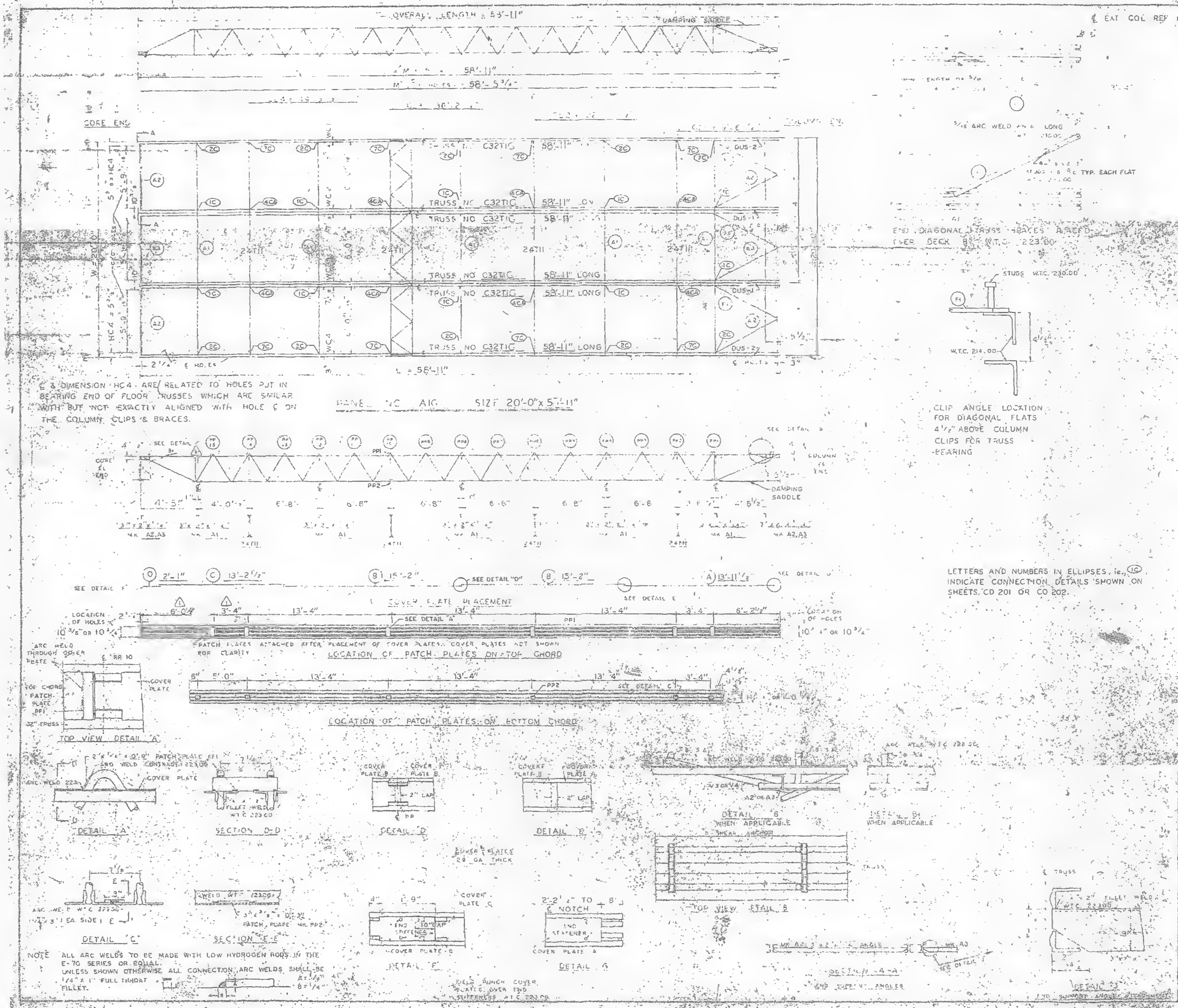
REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4 41	7-22-68
⚠1 SA 124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7 AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 47-48(N), 70-71(N)
PANEL AIF 20'-0" x 59'-2"
BLDG B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) ⚠1

FABRICATION BY - LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7 AB3-3	PLATE
APPROVED FOR FABRICATION BY James White	DATE 1/2/70	DRAWN BY DATE FEB 24 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT 11 1968	IN CHARGE OF PROD. DIV.
DETAILED BY A C WEBER		FABRICATION CONT. NO WT. 221	SHEET NO FP AIF



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL,-				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	6	C32T1G - 58'-11"	ST2016
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	[illegible]
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	8	1 1/2"x 3/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	[illegible]
COVER PLATES	A	4	9"x .0135"x 13'-11 1/2"	ST 303
	B	8	9"x .0135"x 15'-2"	ST 303
	C	4	9"x .0135"x 13'-2 1/2"	ST 303
	D	4	9"x .0135"x 2'-1"	ST 303
ANGLE CLIPS	C1	24	2"x 1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA8	12	#8 REBAR x 0'-3"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
	DUS-2	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	8	1"Φ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x 3/8"x 8 1/2"	ST 400
	P2	8	4 1/2"x .39"x 0'-0"	ST 400
	P3	8	4 1/2"x .39"x 1'-0"	ST 400

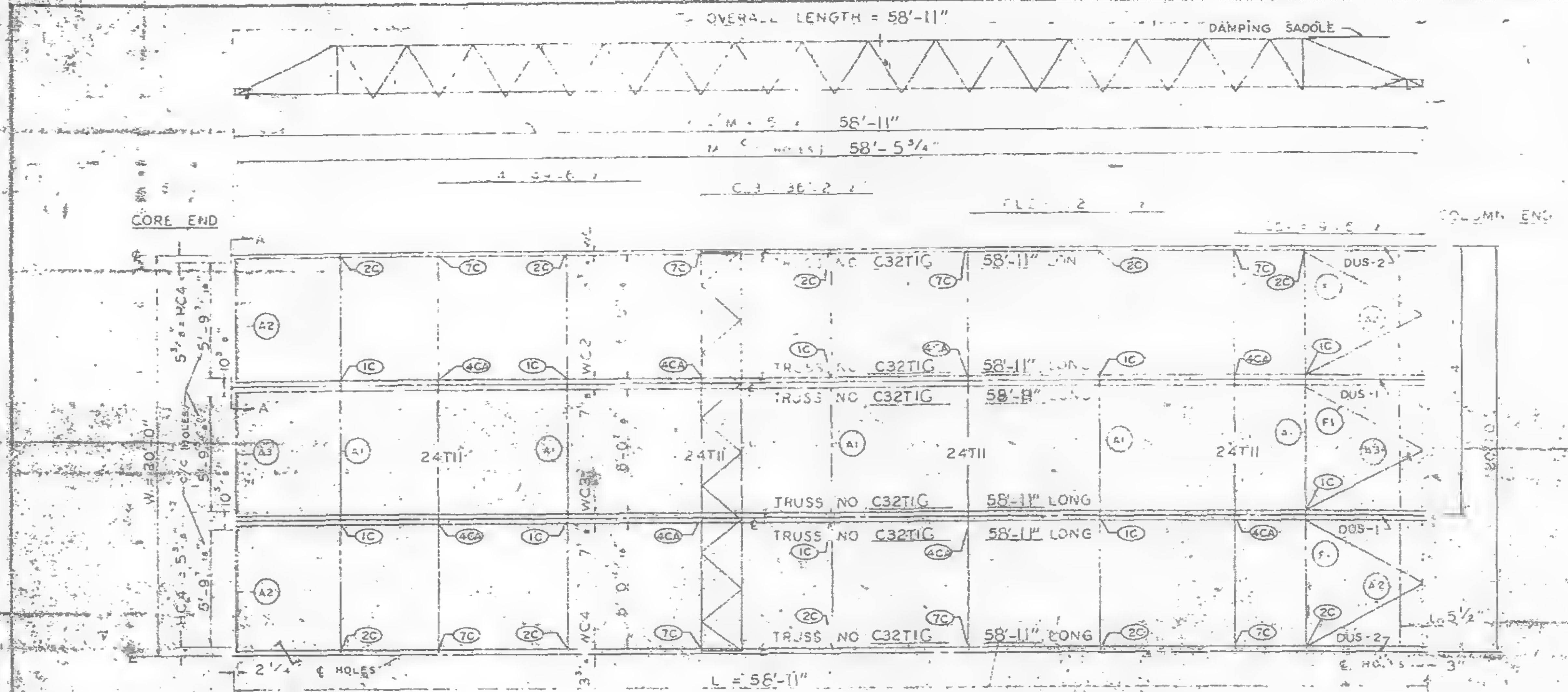
NO.	DATE	REVISION	BY
[illegible]	[illegible]	[illegible]	[illegible]
1	5-27-69	AS NOTED	RJF

REF. DWG. [illegible] 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

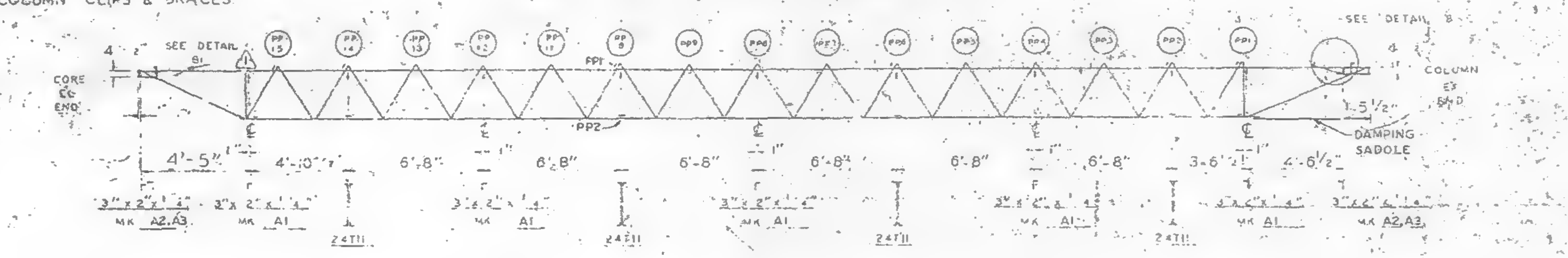
BLDG. A FLOORS 39 (NORTH & SOUTH) 40 (SOUTH)
PANEL A1C [illegible] x 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST)

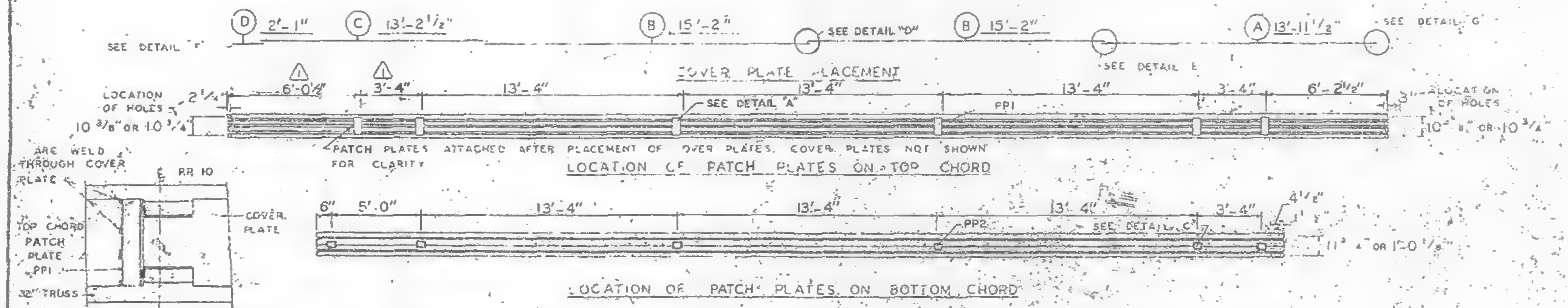
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible]
PLATE [illegible]
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY T. CHURA DATE OCT. 11, 1968
DETAILED BY A. F. WEBER
FABRICATION CONT. NO. [illegible]
IN CHARGE [illegible]



PANEL NO A1C SIZE 20'-0" x 58'-11"

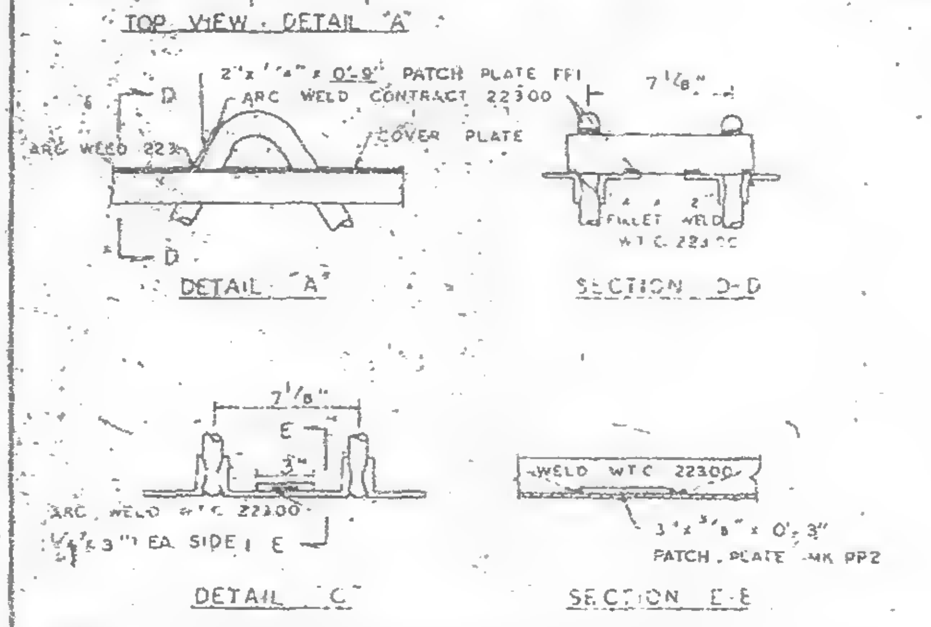
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

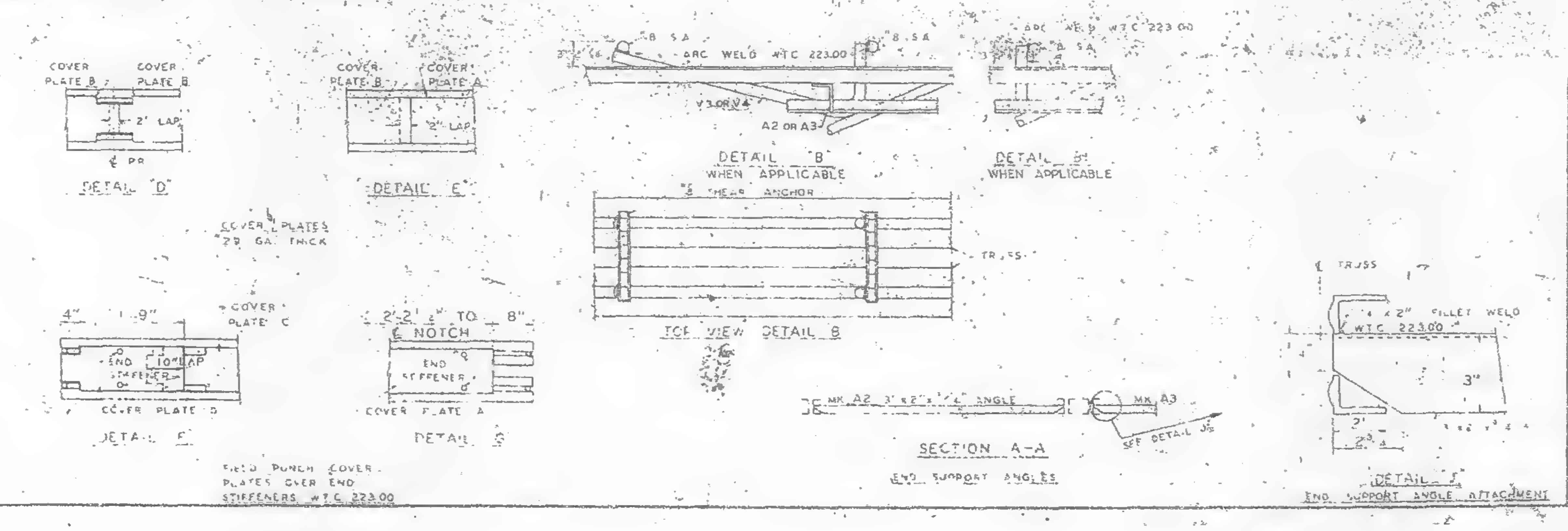




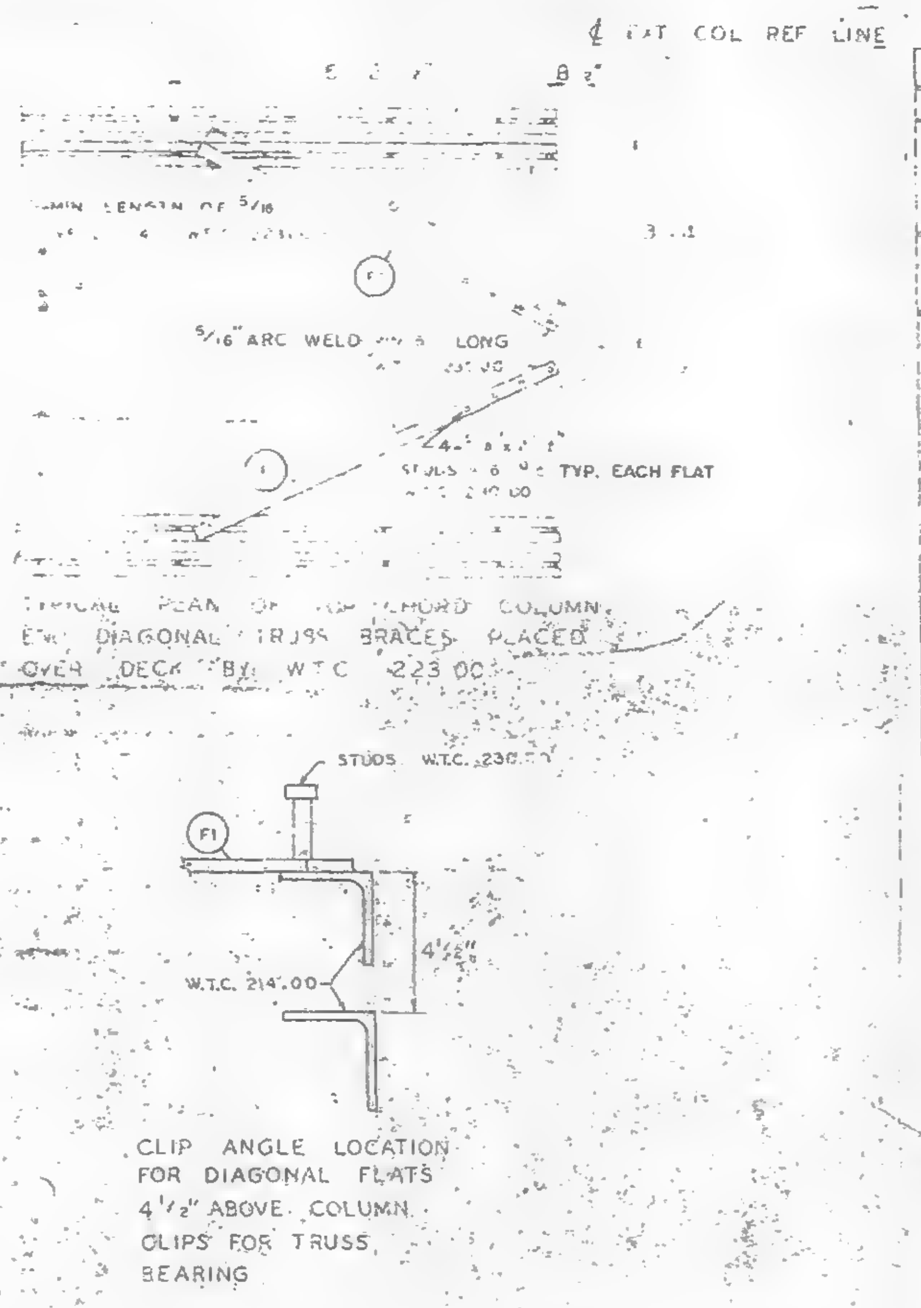
LOCATION OF PATCH PLATES ON TOP CHORD

LOCATION OF PATCH PLATES ON BOTTOM CHORD





NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"



TYPICAL PLAN OF BOTTOM CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	6	C32T16 - 58'-11"	ST2016
BRIDGING TRUSSES	T11	4	24T11 9'-11"	B12"
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x9'-0"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-[illegible] 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-5"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

LETTERS AND NUMBERS IN ECLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	R.J.P.

REF. DRWG

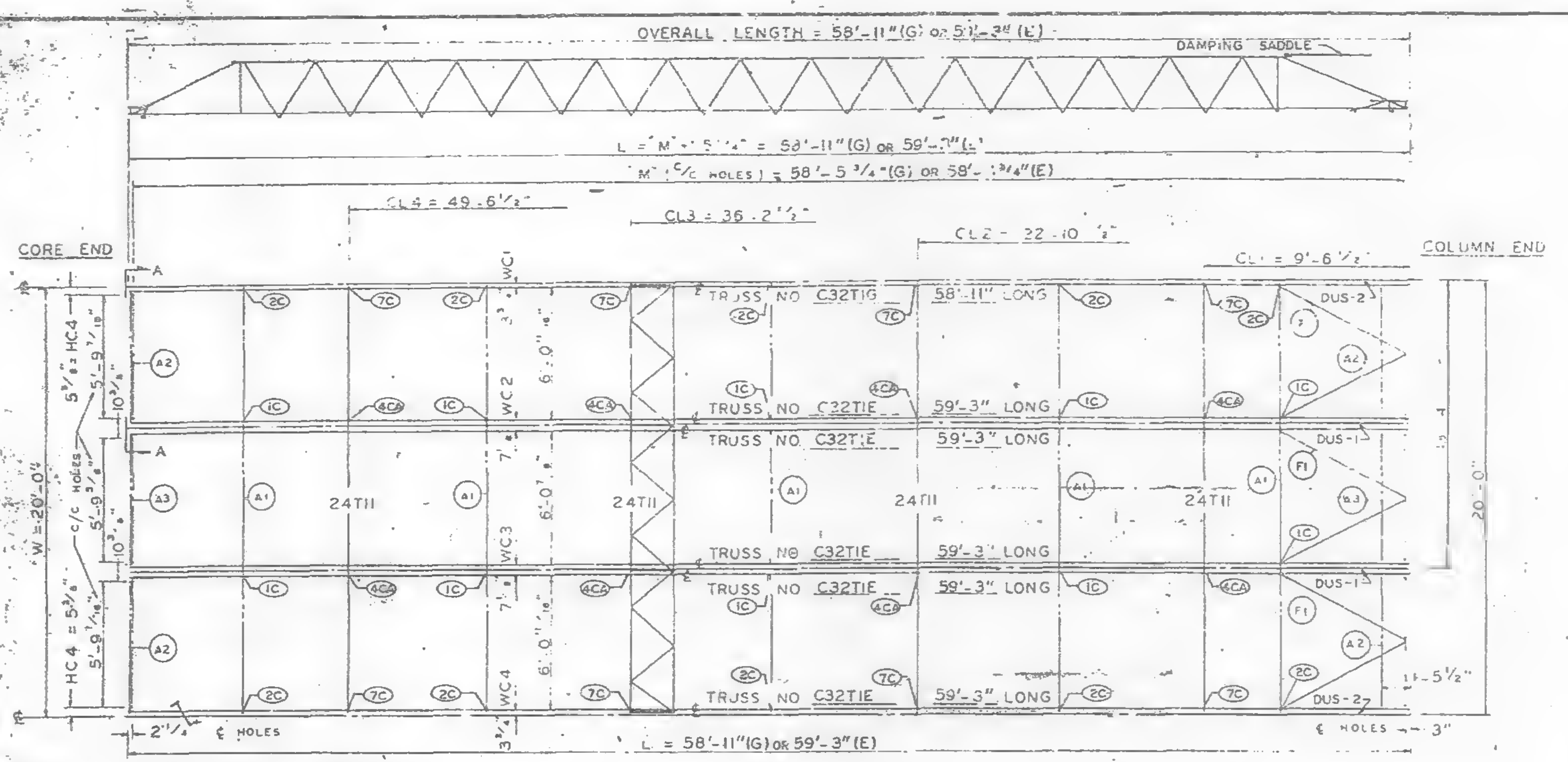
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 39 (NORTH & SOUTH) 40 (SOUTH)
PANEL A1C 20'-0" x 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST)

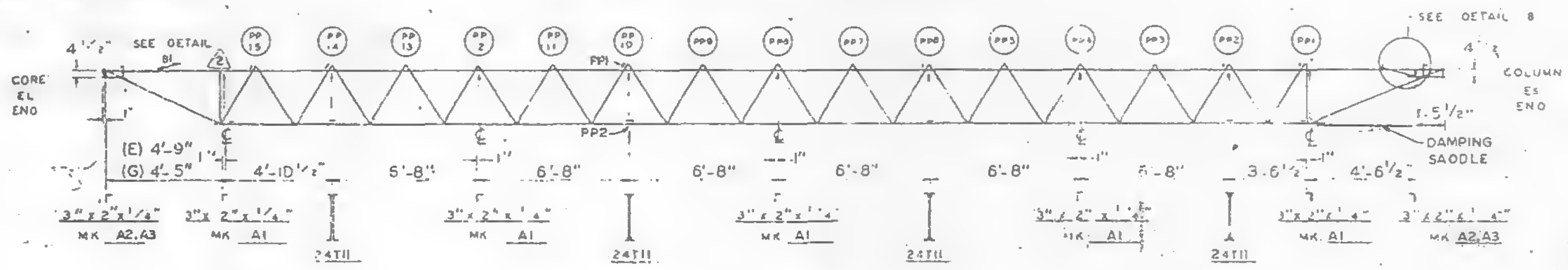
FABRICATION BY LACLEDE STEEL COMPANY

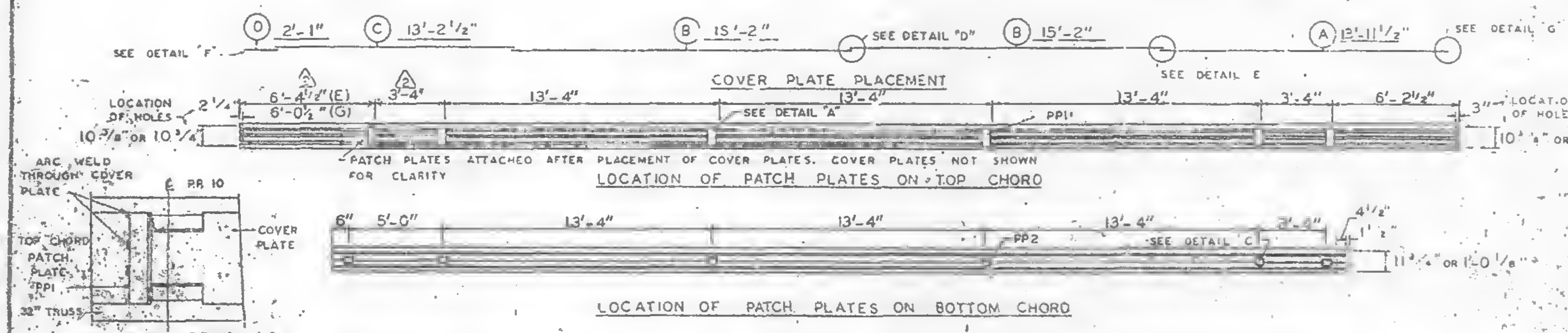
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY James White [illegible]	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO F2 A1C

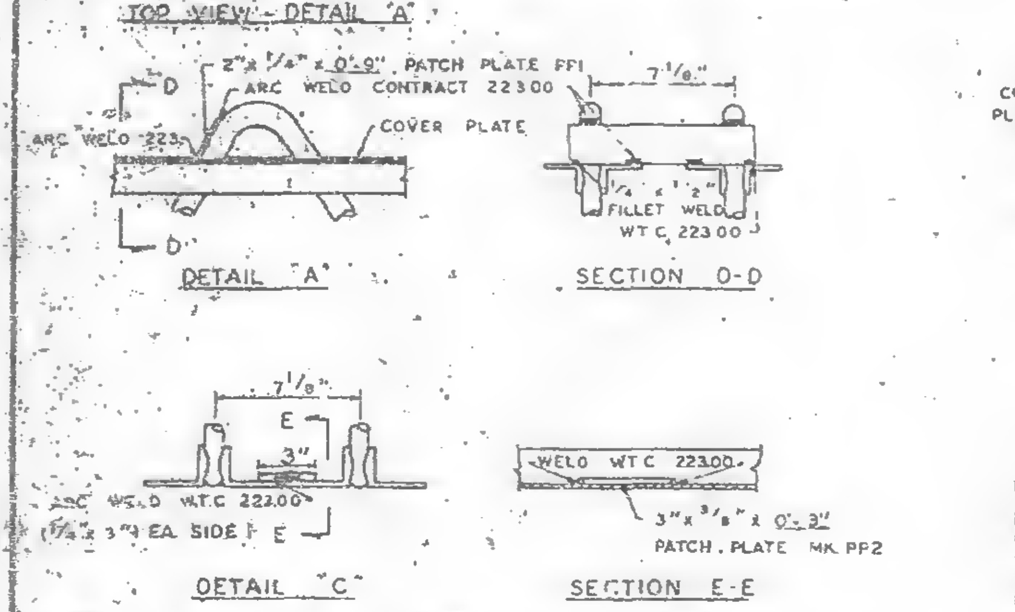

OVERALL LENGTH = 58'-11"(G) or 59'-3"(E)
DAMPING SADDLE
L = 58'-11"(G) or 59'-3"(E)
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIE 59'-3" LONG
24TII
W = 20'-0"
HC4
WC2
WC3
WC4
c/c HOLES
DUS-2
DUS-1
℄ HOLES
L = 58'-11"(G) or 59'-3"(E)

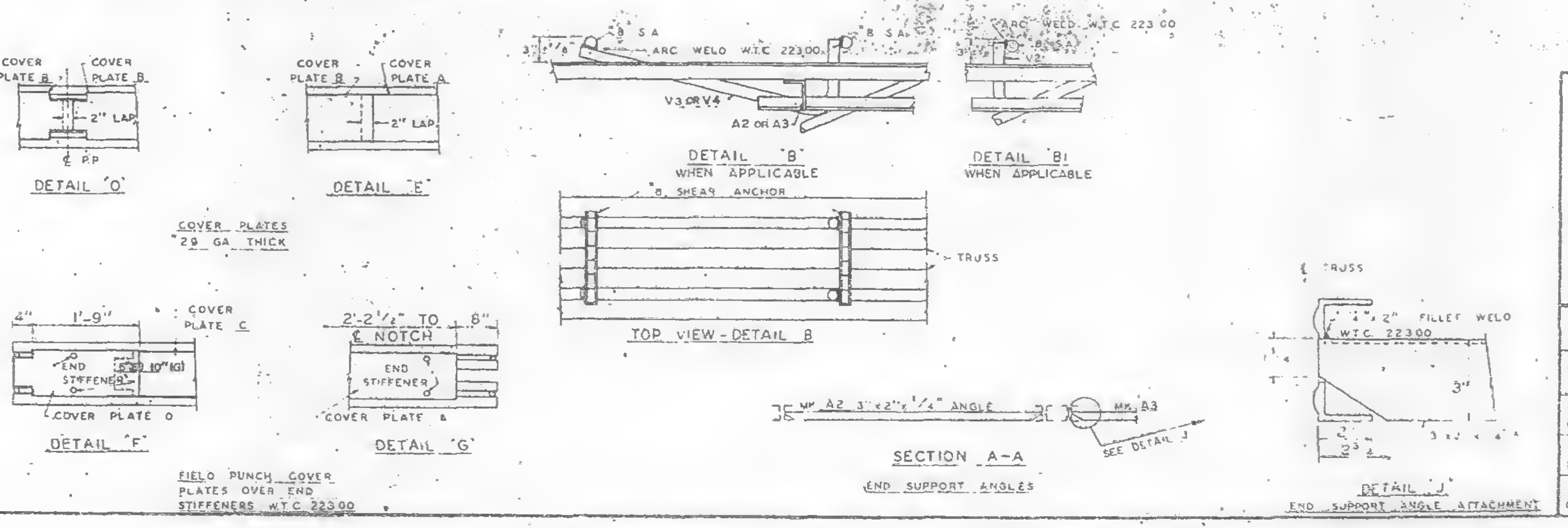
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

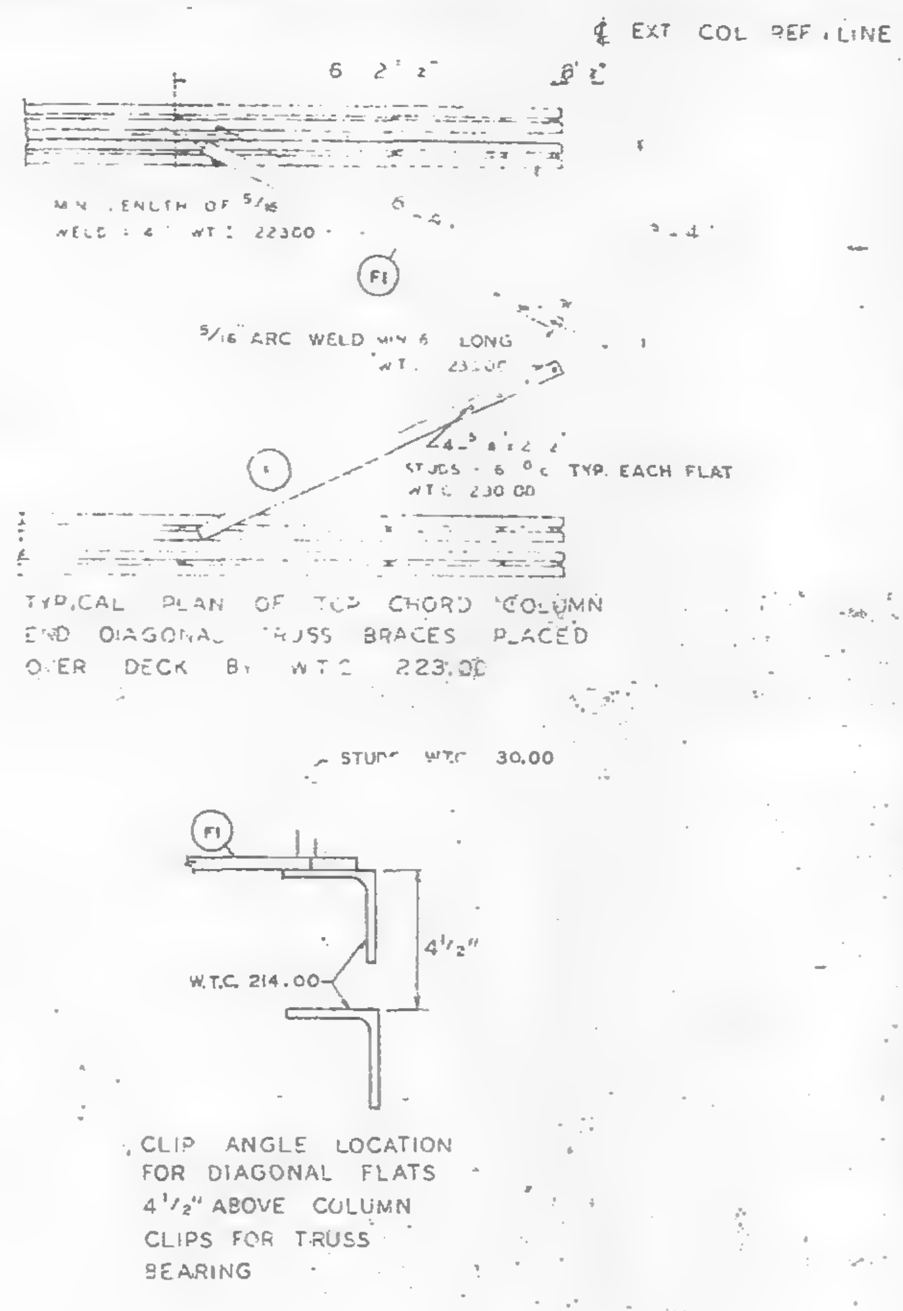
PANEL NO. AIG/E SIZE 20'-0"x59'-3"










℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD W.T.C 223.00
5/16 ARC WELD MIN 6 LONG
STUDS 6" o.c. TYP. EACH FLAT W.T.C 230.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00
STUDS W.T.C 30.00
W.T.C 214.00
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	5	C32TIE - 59'-3"	ST201E
	TIG	1	C32TIG - 58'-11"	ST201G
BRIDGING TRUSS	TII	4	24TII - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x9'-1"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	8	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x9 1/2"	ST400
	P2	5	4 1/2"x.39"x0'-9"	ST400
	P3	8	4 1/2"x.39"x1'-0"	ST400

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	7-12-68	GENERAL	T.N.C.

REF. DRWG

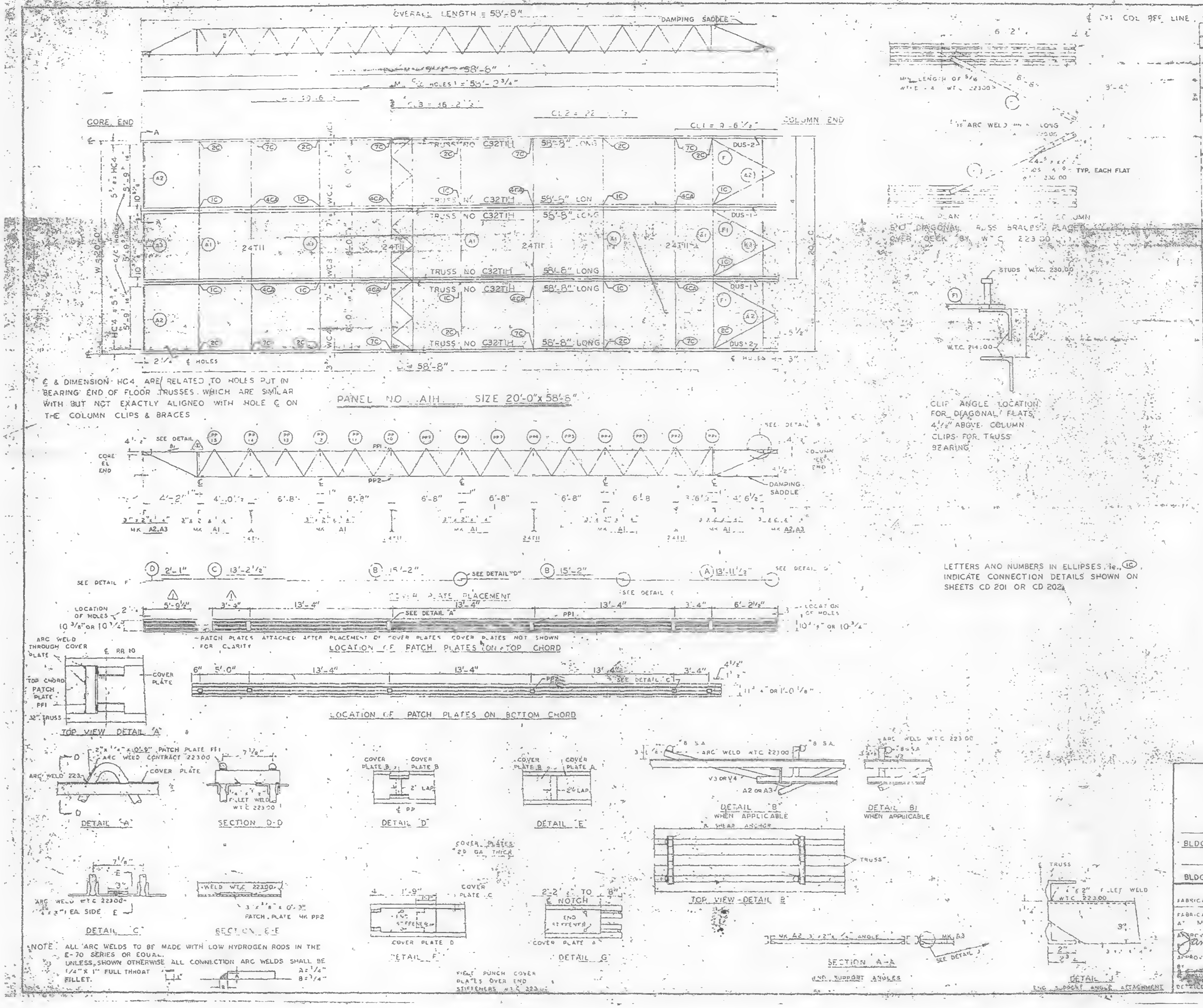
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-66
SA-12.4	1-6-69
7-AB3-2	1-3-68
7-AB1-2 (2)	7-22-68
7-AB2-6	7-22-68

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (NORTH)
PANEL 20'-0" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-4	PLATE
APPROVED FOR FABRICATION BY James White PONYA — DATE 1/2/70	DRAWN BY L.R. DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY J.R.PALS DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY R.C. WEBER	FABRICATION CONT. NO. W T C 221	SHEET NO FP AIG/E



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e., ①C, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	6	C32T1H - [illegible]	[illegible]
BRIDGING TRUSSES	T/1	4	24T11 - 19'-11"	[illegible]
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-1 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x5'-8	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-3"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"φ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x8 1/2"	ST 400
	P2	8	4 1/2"x.39"x0'-9"	ST 400
	P3	8	4 1/2"x.39"x1'-0"	ST 400

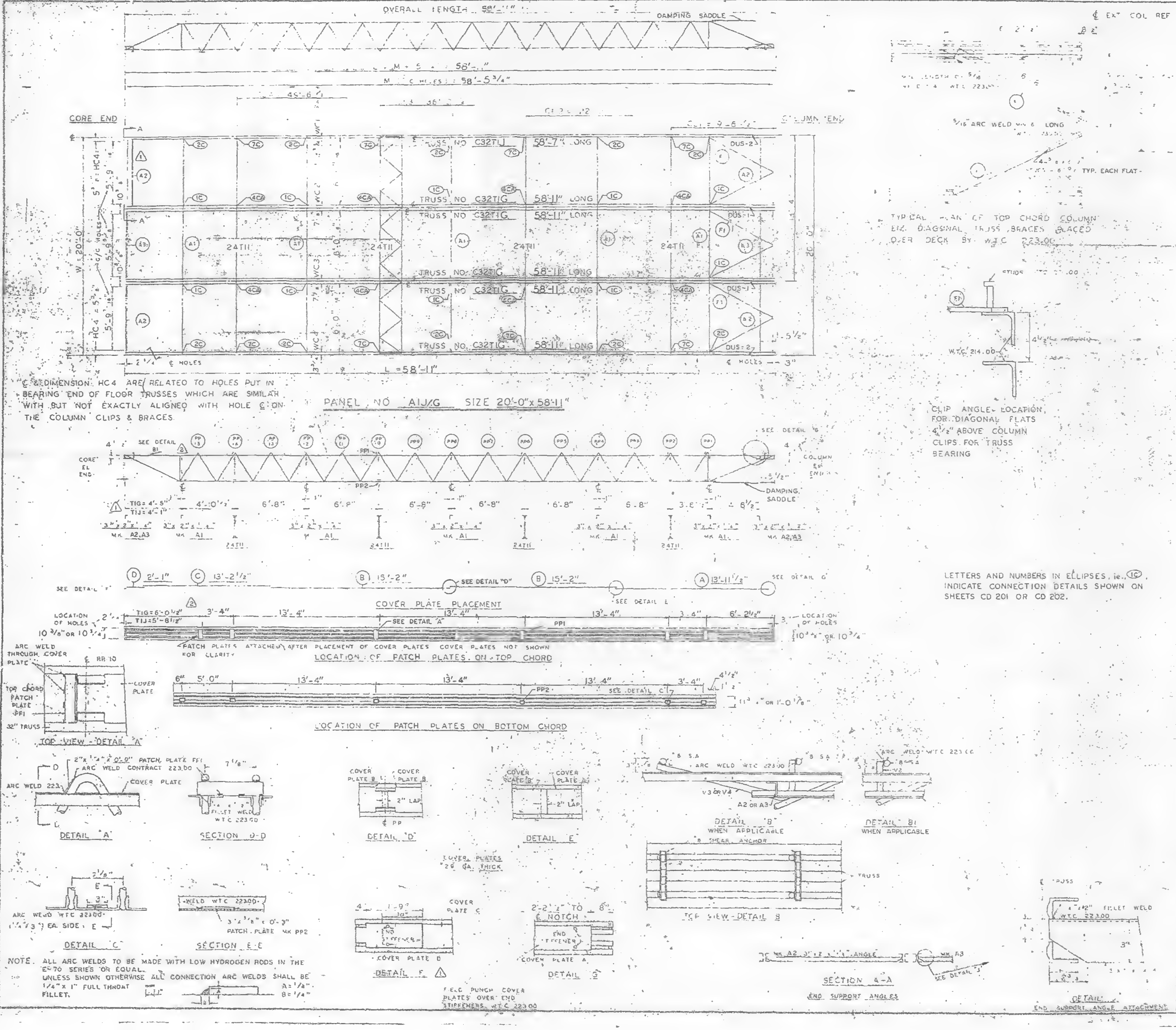
NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA 124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 79-80 (N)
PANEL AIH 20'-0" X 58'-8"
BLDG. B FLOORS 79 & 80 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3 PLATE
APPROVED FOR FABRICATION James White DATE 1/2/70
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT. 11, 1968
IN CHARGE OF [illegible]
DETAILED BY F.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET FP [illegible]



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, ie., ⑮, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG.
[illegible] TRUSSES	TIG	5	C32TIG - 58'-11"	[illegible]
	TIJ	1	C32TIJ - 58'-7"	[illegible]
[illegible] TRUSSES	TII	4	24" [illegible]	[illegible]
3 [illegible] ANGLE	A1	5	3" x 2" x [illegible]	[illegible] 403
	A2	4	3" x 2" x [illegible] 5 1/6	ST 403
	A3	2	3" x 2" x 1/4" [illegible]	[illegible] 403
DIAGONAL FLATS	F1	5	1 1/2" x [illegible] x 5'-3"	[illegible] 02
PATCH PLATES	PP1	24	2" x [illegible] x [illegible]	[illegible]
	PP2	24	3" x 3/8" x 0'-3"	[illegible]
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-5 7/8"	ST298
CONNECTION BAR	CB1	8	1" ϕ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	8	4 1/2" x .39" x 0'-9"	ST400
	P3	8	4 1/2" x .39" x 1'-0"	ST400

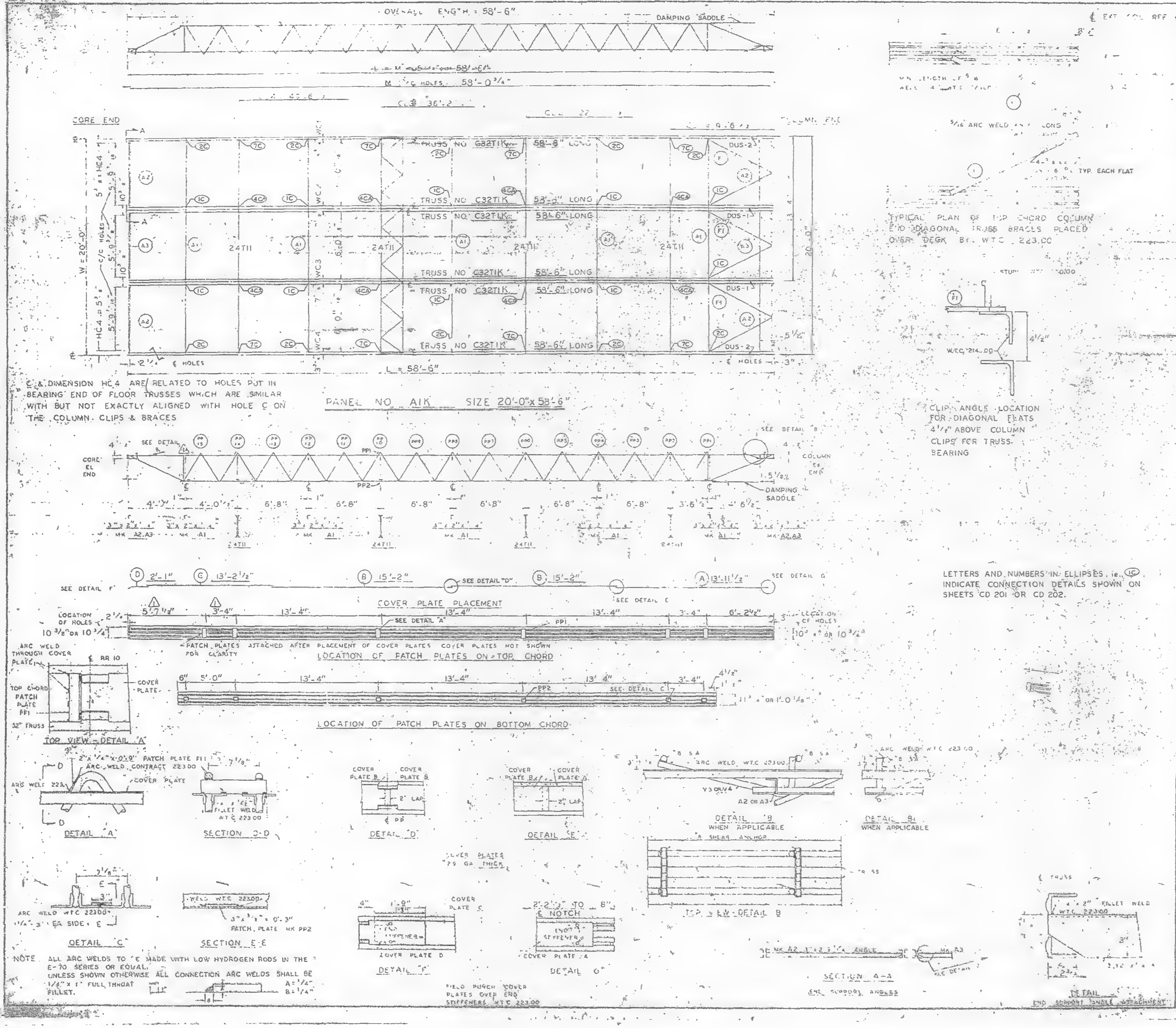
NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	10-21-68	AS NOTED	G.D.C.

REF DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
2	SA 124	1-5-69
	7-AB3-2	1-3-68
	7-AB1-2	7-22-68
	7-AB2-5	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 40 (N)
20'-0" x 58'-11"
BLDG. B FLOORS 40 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVAL FOR FABRICATION BY	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A C WEBER		FABRICATION CONT NO WTC 221	SHEET NO FP A1J/G


OVERALL LENGTH = 58'-6"
DAMPING SADDLE
58'-0 3/4"
CORE END
TRUSS NO C32T1K 58'-6" LONG
24T11
DUS-1
DUS-2
L = 58'-6"
CORE EL END
COLUMN EL END
DAMPING SADDLE
SEE DETAIL "B"
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "A"
LOCATION OF HOLES 10 3/8" OR 10 3/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
3"x 3/8" x 0'-3" PATCH, PLATE MK PP2
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
SECTION A-A
DETAIL END SUPPORT ANGLE ATTACHMENT
TYP. EACH FLAT
W.T.C. 214.00
4 1/2"

£ & DIMENSION HC 4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE £ ON THE COLUMN CLIPS & BRACES

PANEL NO A1K SIZE 20'-0"x 58'-6"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	[illegible]	
FLOOR TRUSSES	T1K	6	C32T [illegible]	ST201
BRIDGING TRUSSES	T11	4	24T11 [illegible]	ST2 [illegible]
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 6' [illegible]	ST403
	A2	4	3"x2"x1/4"x 5' [illegible]	ST403
	A3	2	3"x2"x1/4"x 5' [illegible]	ST403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6' [illegible]	ST402
PATCH PLATES	PP1	24	2"x 1/4"x [illegible]	ST400
	PP2	24	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	8	4 1/2" x .30" x 0'-9"	ST400
	P3	8	4 1/2" x .30" x 1'-0"	ST400

NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	RJE

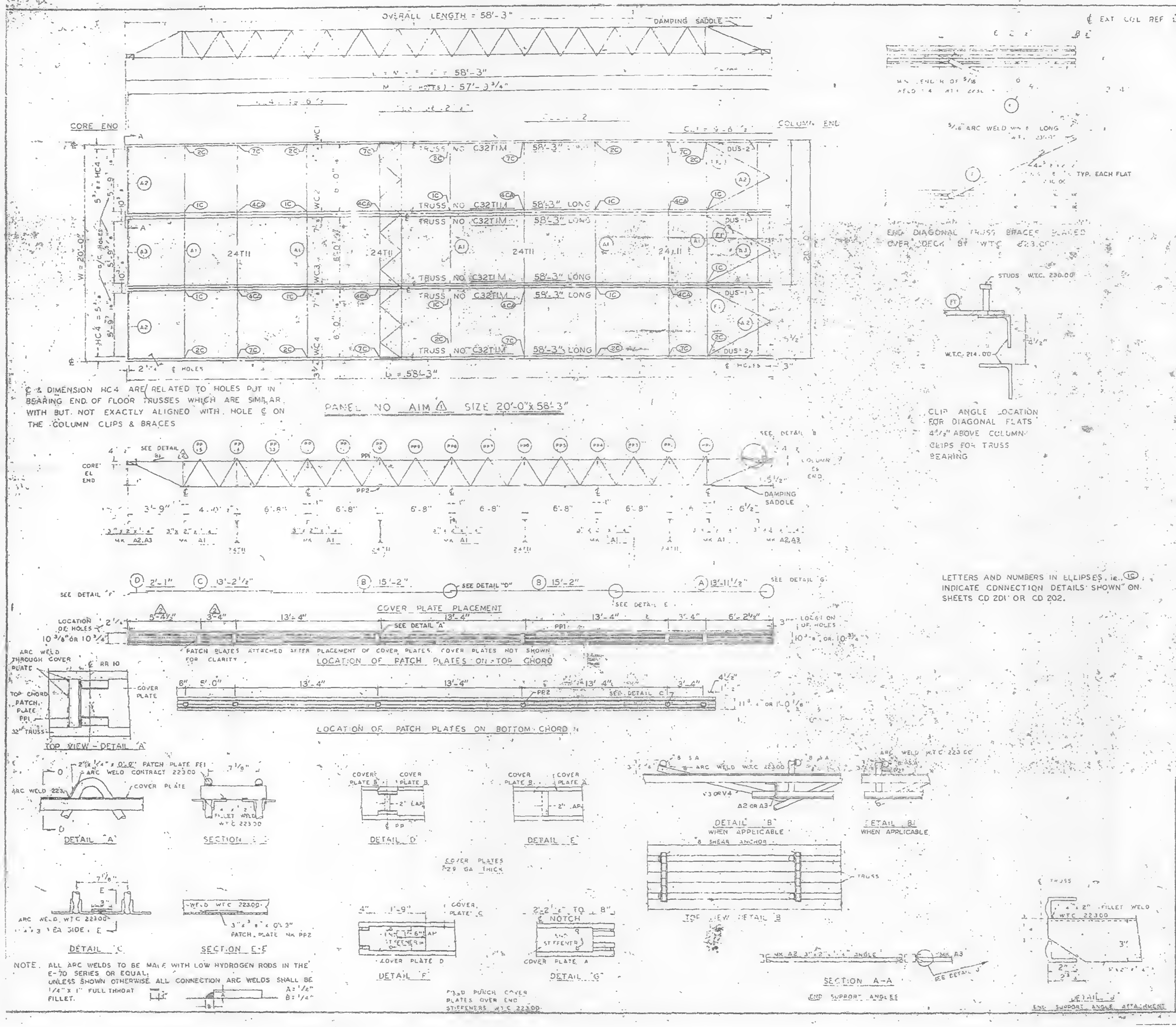
REF DRWG

7-A84-3	10-15-68
7-A84-15 & 16	7-22-68
7-A84-41	7-22-68
SA-124	1-6-69
7-A83-2	1-3-68
7-A81-2	7-22-68
7-A82-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]
PANEL [illegible] 20'-0" x 58'-6"
BLDG. B FLOORS 45 (EAST) 46 (EAST & WEST)

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-A83-3	PLATE
APPROVED FOR FABRICATION James White [illegible]	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY T. CHORA DATE OCT. 11, 1968	IN CHARGE OF [illegible]
[illegible]		FABRICATION CONT. NO. WTC 221	SHEET NO. FP A1K



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

LETTERS AND NUMBERS IN ELLIPSES, i.e. ⑮, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1M	6	C32T1M - 58'-3"	ST201M
BRIDGING TRUSSES	T11	4	24T11 - 19	ST211
3 x 2 x ¼ ANGLE	A1	5	3"x2"x¼"x9'-[illegible]	ST403
	A2	4	3"x2"x¼"x5'-[illegible]	ST403
	A3	2	3"x2"x¼"x5'-[illegible]	ST401
[illegible]	F1	6	1½"x⅝"x5'-8	ST402
PATCH PLATES	PP1	24	2"x¼"x0'-9"	ST400
	PP2	24	3"x⅜"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11½"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1" x 1'-3"	ST400
CONNECTION PLATES	P1	10	3½" x ⅜" x 6½"	ST400
	P2	8	4½" x .39" x 0'-9"	ST400
	P3	8	4½" x .39" x 1'-0"	ST400

NO	DATE	REVISION	BY
②	5-27-69	AS NOTED	R.J.P.
①	10-21-68	AS NOTED	G.L.

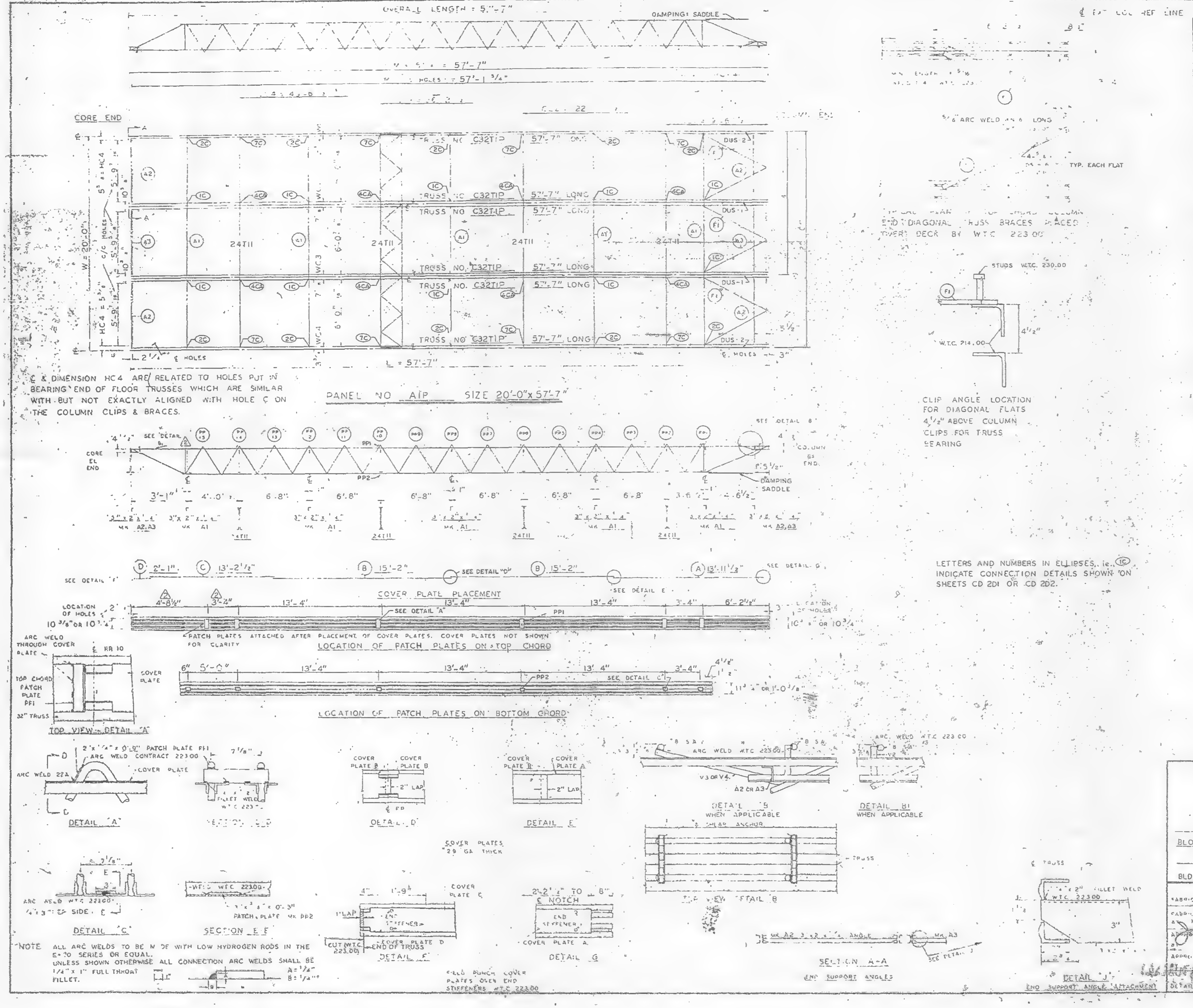
REF. DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
②	SA-124	1-6-69
	7-AB3-2	1-3-68
	7-AB1-2	7-22-68
	7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL AIM ① [illegible] x 58'-3"
BLDG. B FLOORS 72 & 73 (WEST) ②

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY James White, P.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHUPA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. G. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FD-AIM



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	6	C32T1P - 57'-7"	ST201
[illegible] TRUSSES	T11	4	24T11 [illegible]	[illegible]
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x9'-[illegible]	ST403
	A2	4	3"x2"x1/4"x5'-[illegible]	ST403
	A3	2	3"x2"x1/4"x5'-[illegible]	ST403
DIAGONAL FLATS	F1	6	1 1/2" x 5/16" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES △1	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#5 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR X 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

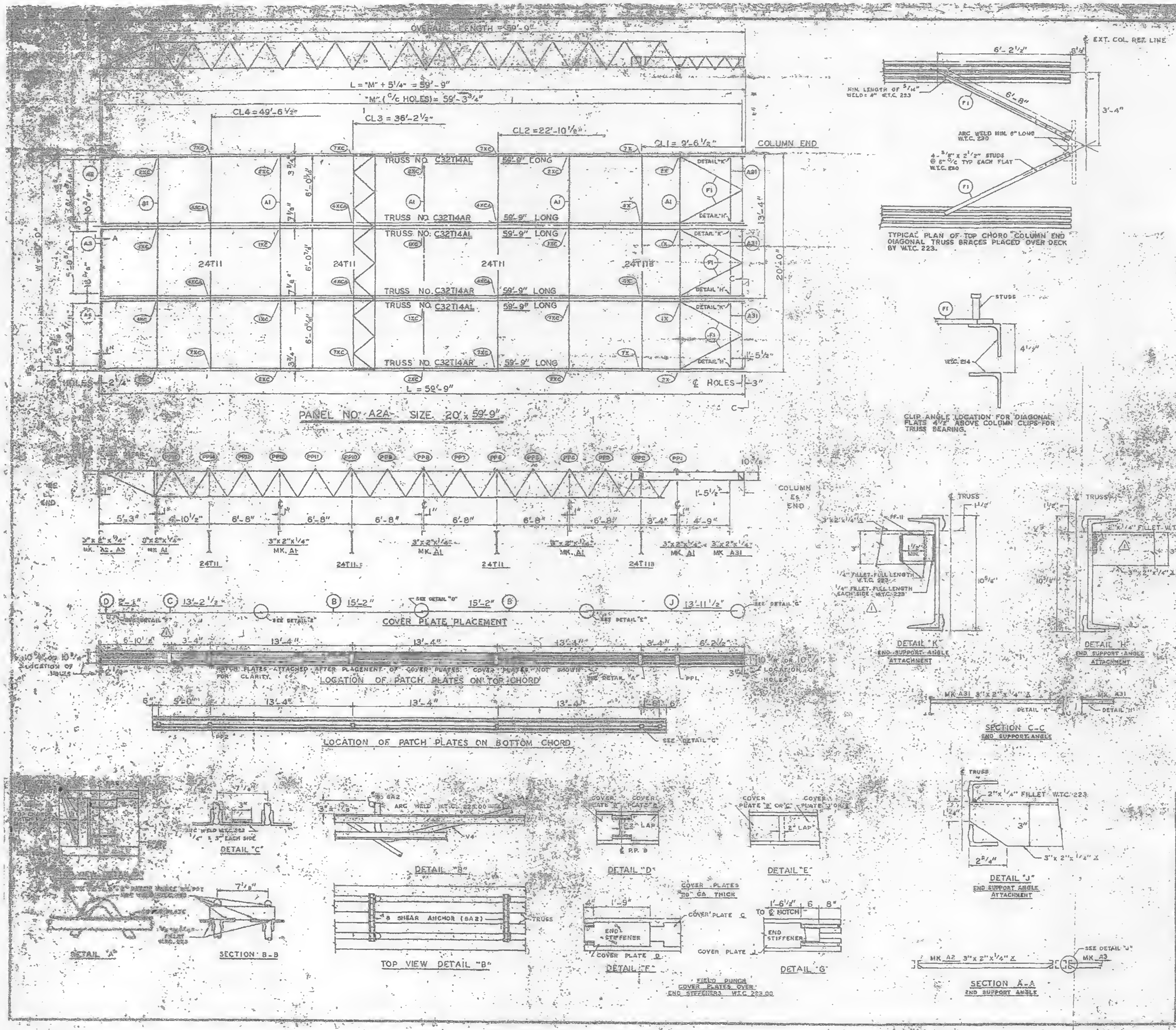
NO	DATE	REVISION	BY
△2	5-27-69	AS NOTED	RJP
△1	[illegible]	COVER PLATES	

REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-41 7-22-68
△2 SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

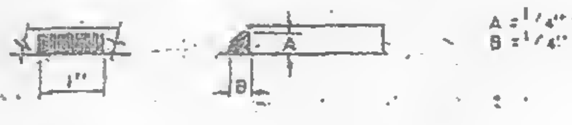
BLDG. A FLOORS 74 (N)
PANEL A1P [illegible] X 57'-7"
BLDG. B FLOORS 74 (WEST) △2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 1/2/70
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A C WEBER
DESIGN DRAWING NO 7-AB3-3
PLATE
DRAWN BY [illegible] DATE FEB 24, 1968
CHECKED BY T CHURA DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO W T C 221
SHEET NO FD A1P


OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/8"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T11
24T11B
DETAIL "K"
DETAIL "H"
A1
A2
A3
A31
F1
13'-4"
20'-0"
6'-0 1/16"
7 1/8"
3 3/4"
€ HOLES
L = 59'-9"
PANEL NO. A2A SIZE 20' x 59'-9"
6'-2 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4 - 3/8" x 2 1/2" STUDS @ 6" C/C TYP. EACH FLAT W.T.C. 230
EXT. COL. REF. LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
PP1 PP2 PP3 PP4 PP5 PP6 PP7 PP8 PP9 PP10 PP11 PP12 PP13 PP14
COLUMN END
5'-3"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
1'-5 1/2"
3" x 2" x 1/4" MK. A2, A3
3" x 2" x 1/4" MK. A1
3" x 2" x 1/4" MK. A31
24T11
24T11B
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
SEE DETAIL "F"
6'-10 1/4"
13'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
10 1/4" OR 10 3/4" LOCATION OF HOLES
SEE DETAIL "A"
PP1
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TRUSS
PF-11
3" x 2" x 1/4"
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE W.T.C. 223
1/4" FILLET W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK. A31 3" x 2" x 1/4" ∠
SECTION C-C END SUPPORT ANGLE
2" x 1/4" FILLET W.T.C. 223
3"
2 3/4"
3" x 2" x 1/4" ∠
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK. A2 3" x 2" x 1/4" ∠
SEE DETAIL "J"
MK. A3
SECTION A-A END SUPPORT ANGLE
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
COVER PLATE C
COVER PLATE B
2" LAP
€ P.P. 9
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
DETAIL "A"
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATES 20 GA THICK
1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
1'-6 1/2"
6
8"
TO € NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	BT 211
	T11B	1	24T11B x 19'-11"	BT 211B
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/4"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	8	9" x .0135" x 15'-2"	ST 303
	C	4	9" x .0135" x 13'-2 1/2"	ST 303
	D	4	9" x .0135" x 2'-1"	ST 303
	J	4	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400
	P8	8	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



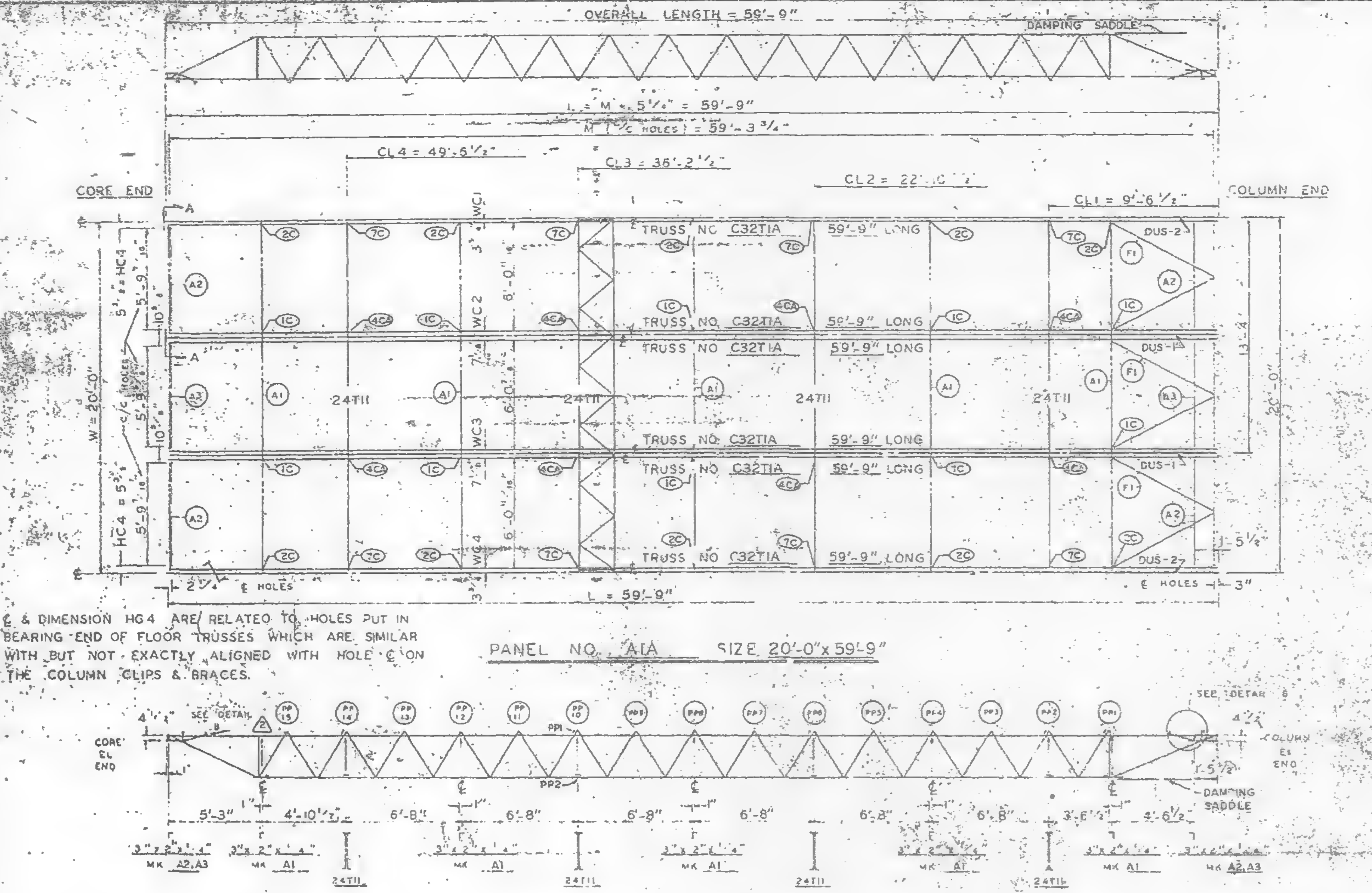
NO.	DATE	REVISION	BY
2	7-1-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

REF. DRWG.	
7-AB3-25	10-4-68
7-AB3-24	8-15-68
7-AB1-13	10-4-68
7-AB2-5	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

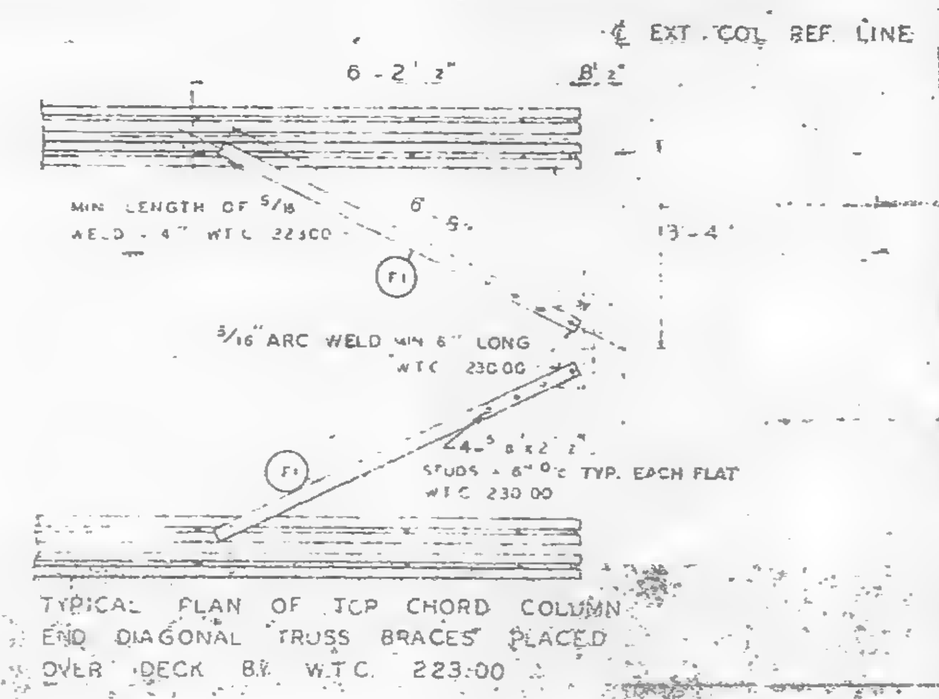
BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH) 1
PANEL 2A 20' x 59'-9"
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 1/2/70
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
LACLEDE STEEL CO. DETAILED BY E.A.C. WEBER
DESIGN DRAWING NO PLATE
DRAWN BY R.R. DATE DEC. 5, 1968
CHECKED BY T.M. CHUHA DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP-A2A

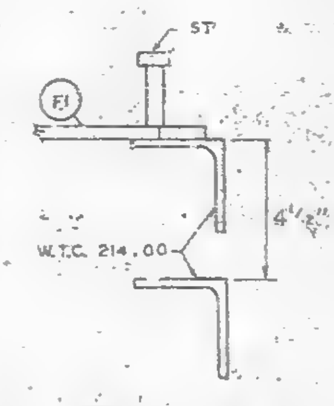


℄ & DIMENSION HG4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. A1A SIZE 20'-0"x 59'-9"

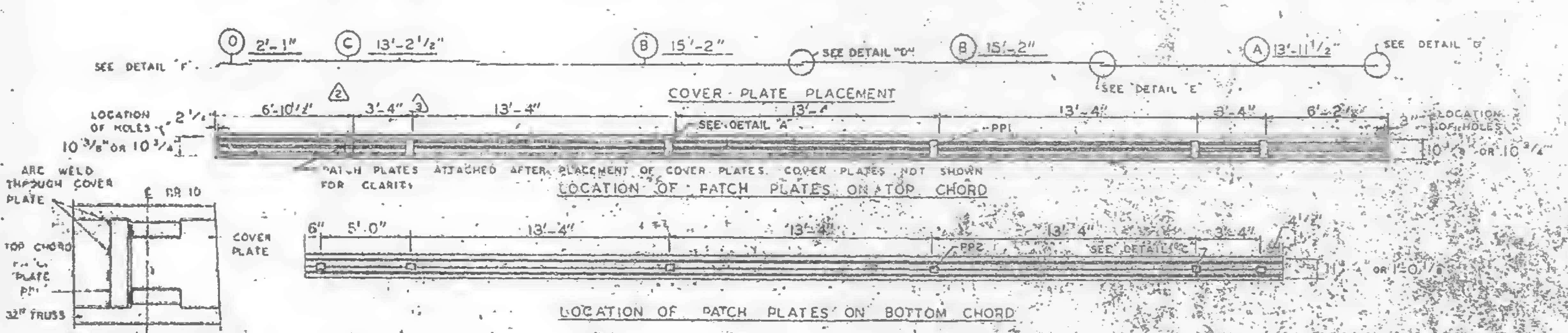

℄ EXT. COL. REF. LINE
6'-2 1/2"
MIN LENGTH OF 5/16 WELD - 4" W.T.C. 223.00
3/16" ARC WELD MIN 6" LONG W.T.C. 230.00
F1
∠4-5 1/2"x2 1/2"
STUDS @ 6" O.C. TYP. EACH FLAT W.T.C. 230.00

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL MATERIAL	MK	PCS	SIZE	REF. DRWG
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST20[illegible]
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST2[illegible]
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-[illegible]	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	[illegible]"x [illegible]-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x3 1/2"	ST400
	P2	8	4 1/2"x.30"x0'-9"	ST400
	P3	8	4 1/2"x.30"x1'-0"	ST400

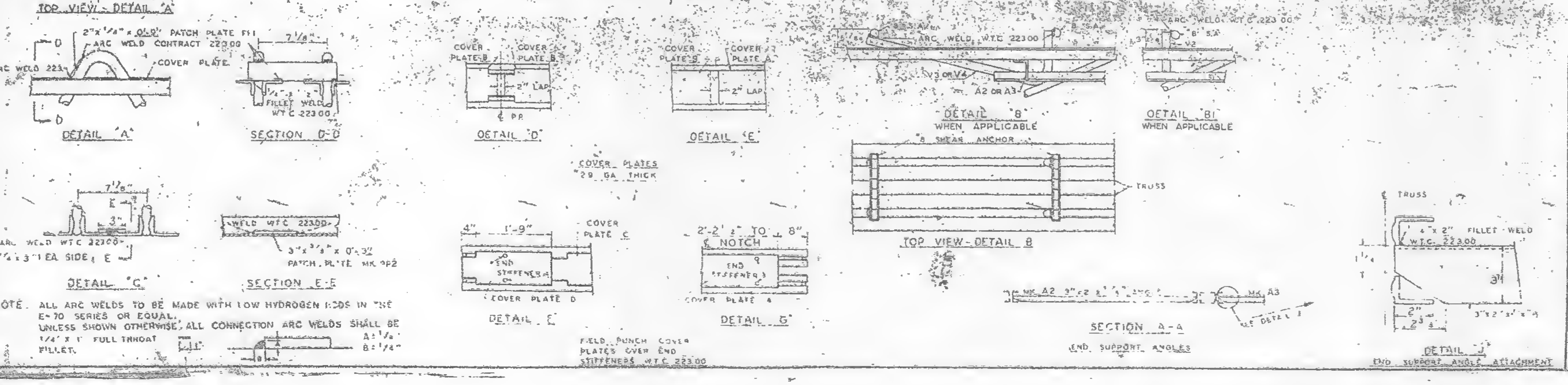


LETTERS AND NUMBERS IN ELLIPSES IE (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NO.	DATE	REVISION	BY
4	5-13-69	AS NOTED	G.D.C.
3	3-11-69	AS NOTED	G.D.C.
2	2-17-69	AS NOTED	G.D.C.
1	7-12-68	GENERAL	E.H.[illegible]

REF DRWG

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
4 SA-124	1-6-68
7-AB3-2	1-31-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68



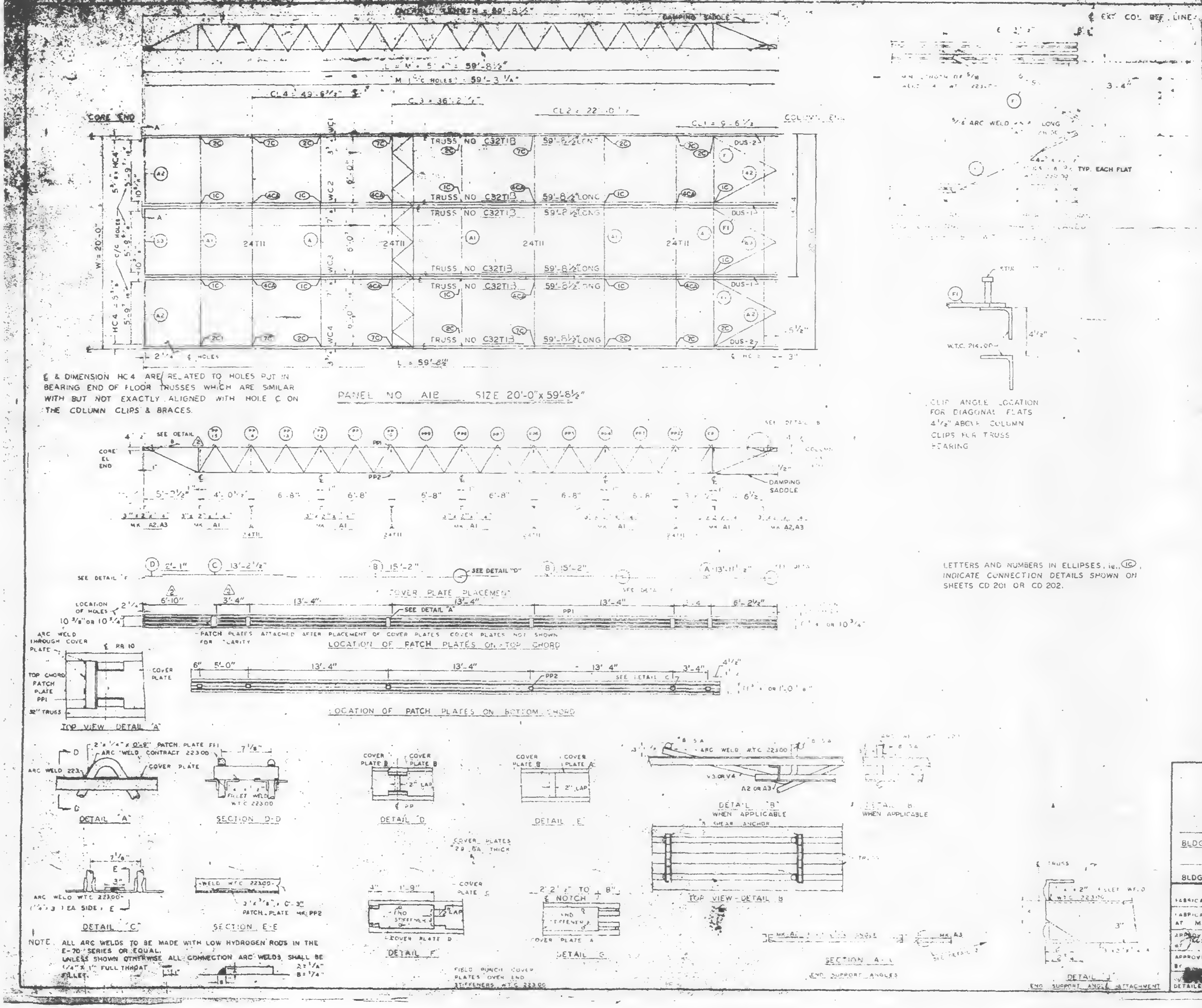
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE, ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) [illegible], 60-66, 68, 69 (NORTH)
PANEL A1A - [illegible]
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST) 4

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3	PLATE [illegible]
APPROVED FOR FABRICATION BY [illegible] FOR [illegible]	DATE [illegible]	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY [illegible]	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE [illegible]
DETAILED BY [illegible] STEEL CO.		FABRICATION CONT. NO. WTC 221	[illegible]



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DR
FLOOR TRUSSES	T13	6	C32T1 - 59'-8½"	ST [illegible]
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x19'-11"	ST 400
	A2	4	3"x2"x¼"x5'-11 9/16	ST 400
	A3	2	3"x2"x¼"x5'-11¾	ST 403
DIAGONAL FLATS	F1	6	1⅛"x⅝"x 6'-8"	ST 4[illegible]
PATCH PLATES	PP1	24	2"x¼"x 0'-9"	ST 400
	PP2	24	3"x⅜"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11½	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x13'-2½	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½" x ⅜" x 6½"	ST 400
	P2	8	4½" x .39" x 0'-9"	ST 400
	P3	6	4½" x .39" x 1'-0"	ST 400

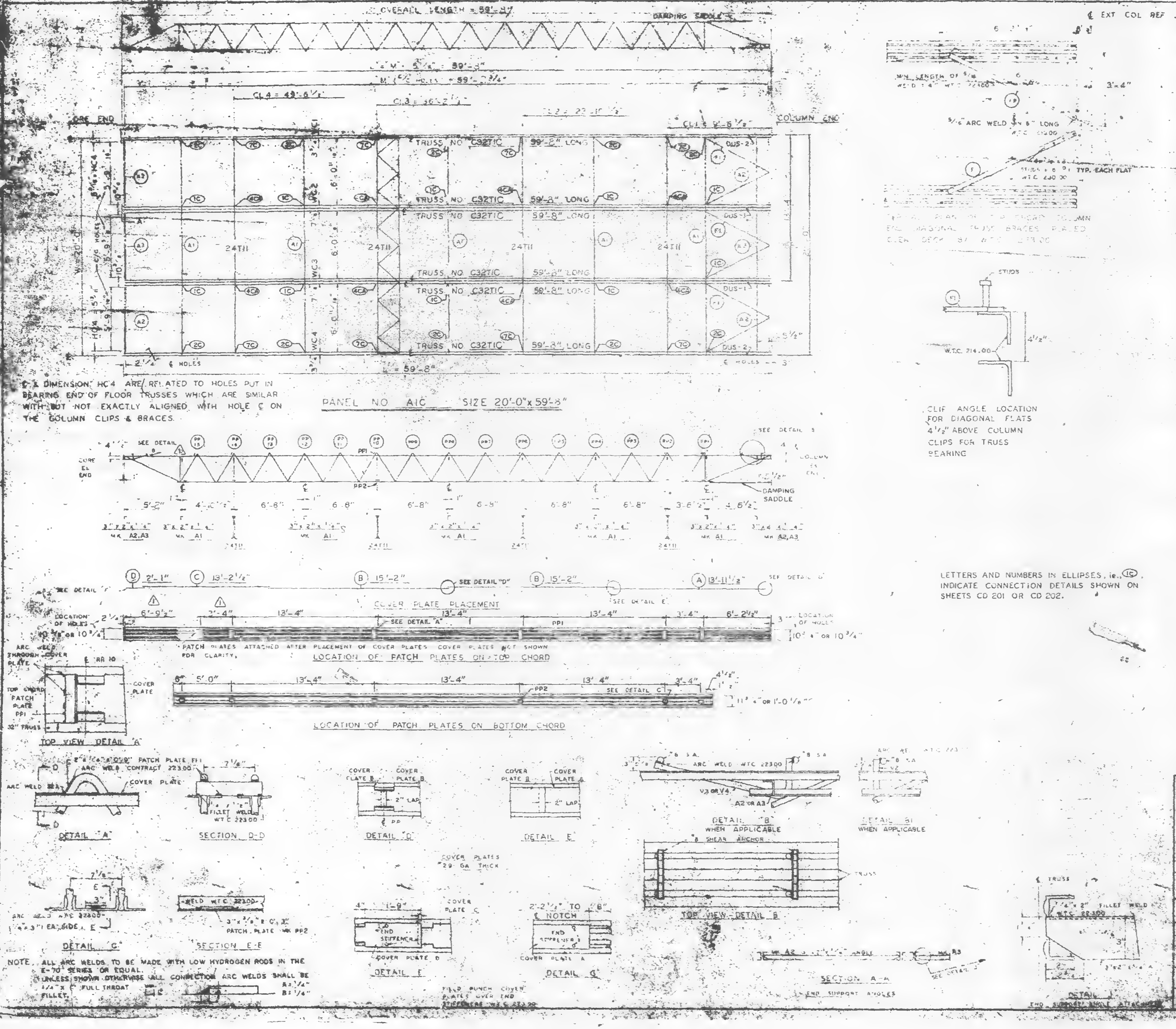
NO	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	10-21-68	AS NOTED	G.D.C.

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
⚠2 SA-124	1-8-69
7-AB3-8	[illegible]
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (NORTH) ⚠1
PANEL A13
BLDG. B FLOORS 83-91, 93-106 (WEST) ⚠2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-2
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR ENGINEERS DATE
CHECKED BY L. CHURA DATE OCT 11, 1968
FABRICATION CONT NO
DETAILED BY A.C. WEBER



C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x C" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1C	6	C32T1A - 59'-8"	ST201
BRIDGING TRUSSES	T11	4	24T11 - [illegible]-11"	ST211
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x [illegible]	ST403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A3	2	3" x 2" x 1/4" x [illegible]	ST403
DIAGONAL FLATS	F1	8	1 1/2" x 3/8" x 8'-8"	ST [illegible]
PATCH PLATES	PP1	24	3" x 1/4" x 0'-8"	ST [illegible]
	PP2	24	3" x 3/8" x 0'-3"	ST [illegible]
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2"	ST302
	B	8	9" x .0135" x 15'-2"	ST302
	C	4	9" x .0135" x 13'-2 1/2"	ST302
	D	4	9" x .0135" x 2'-1"	ST30
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	3/4" x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/4" x 5/8" x 0'-6 1/2"	ST400
	P2	8	4 1/2" x .30" x 0'-9"	ST400
	P3	3	4 1/2" x .38" x 1'-0"	ST400

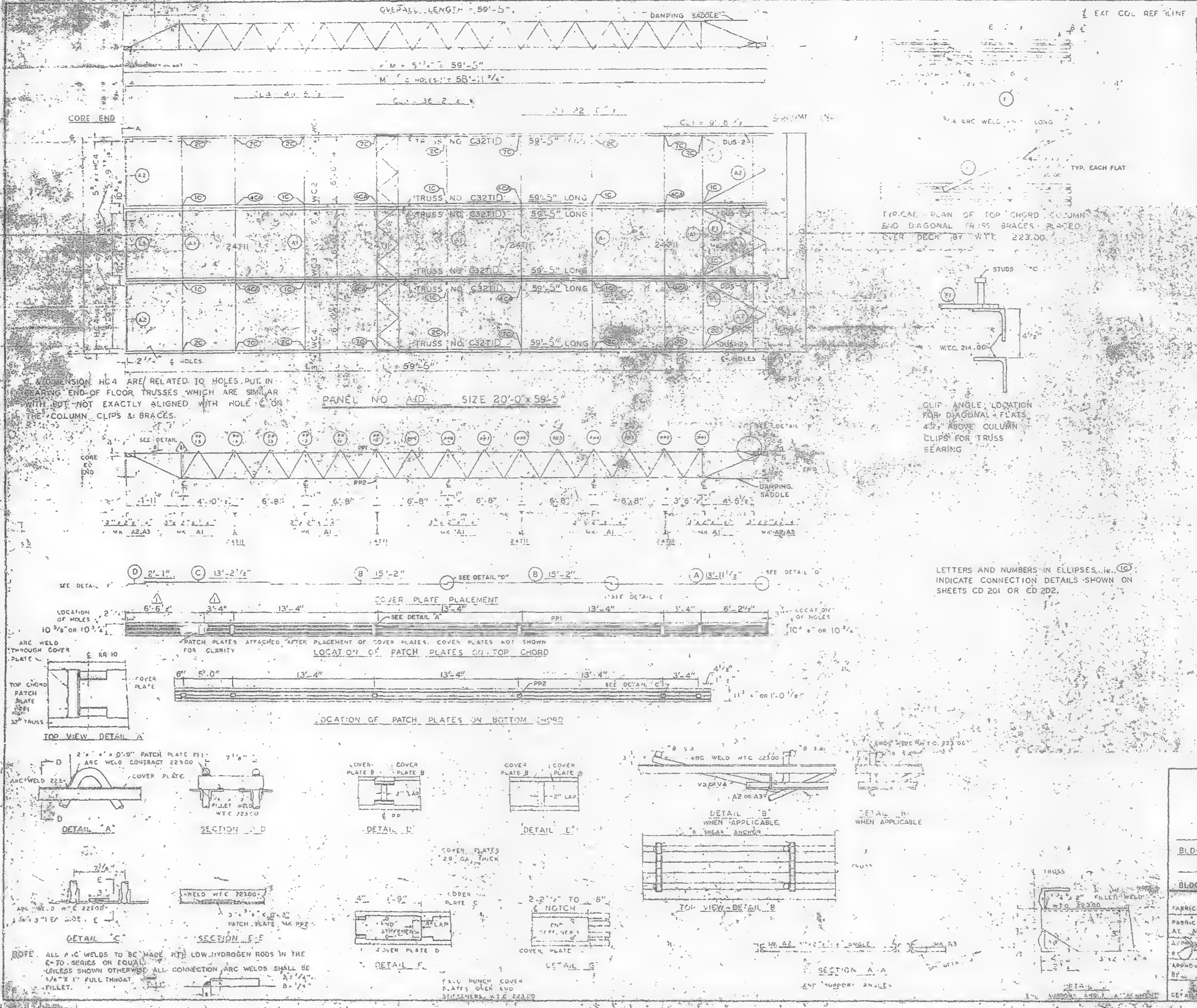
NO.	DATE	REVISION		BY
1	5-27-69	AS NOTED		

REF DRWG
7-AB4-3 3-15-68
7-AB4-15 & 16 7-2-68
7-AB4-41 22-68
SA-12A 1-8-69
7-AB3-2 1-3-69
7-AB1-2 7-2-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]
PANEL A1C
BLDG. B FLOORS 49-58, 60-74, [illegible]

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [redacted]
CHECKED BY T CHURA DATE OCT. [illegible]
DETAILED BY [illegible]


OVERALL LENGTH = 59'-5"
DAMPING SADDLE
℄ EXT COL REF LINE
CORE END
TRUSS NO C32T1D 59'-5" LONG
PANEL NO A1D SIZE 20'-0" x 59'-5"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
TYP. EACH FLAT
STUDS
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL 4 FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "H" WHEN APPLICABLE
TOP VIEW - DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
PATCH PLATE MK PP2
COVER PLATES 28 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e., ①C INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	6	C32T1D - 59'-5"	ST201D
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST2[illegible]
3 x 2 x ¼ ANGLE	A1	5	3"x2"x¼"x19'-11"	ST403
	A2	4	3"x2"x¼"x5'-11 9/16	ST403
	A3	2	3"x2"x¼"x5'-11¾"	ST403
DIAGONAL FLATS	F1	6	1½"x⅝"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x¼"x0'-9"	ST400
	PP2	24	3"x⅜"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11½"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-5⅞"	ST298
CONNECTION BAR	CB1	8	1"ø x 1'-3½"	ST400
CONNECTION PLATES	P1	10	3½" x 3½" x 6½"	ST400
	P2	8	4½" x .30" x 0'-9"	ST400
	P3	8	4½" x .30" x 1'-0"	ST400

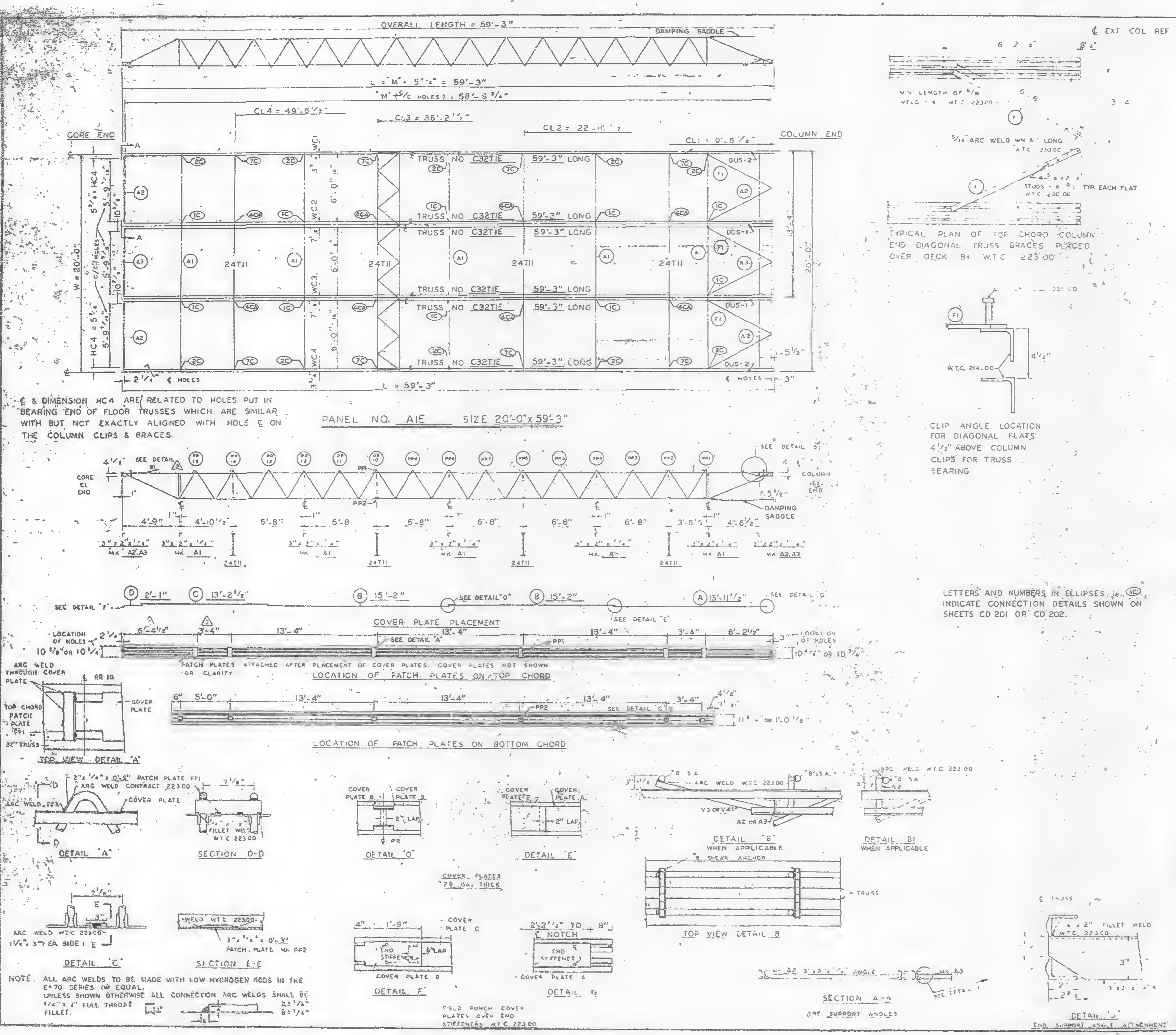
1	5-27-69	AS NOTED	
NO.	DATE	REVISION	BY

REF. DRWG
7-AB4-3 10-15-68
7-AB4-5 & 16 7-22-68
7-AB4-41 1-24-69
SA-124 1-5-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 (N)
PANEL A1D 20'-0" x 59'-5"
BLDG. B FLOORS 81-82 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3
PLATE
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT 11, 1968
IN CHARGE
DETAIL
FABRICATION CONT. NO. W.T.C. [illegible]
SHEET


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
L = "M" + 5'-4" = 59'-3"
"M" (+ ¢ HOLES) = 58'-8 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T1E 59'-3" LONG
24T11
DUS-1
DUS-2
W = 20'-0"
HC4
WC2
WC3
WC4
L = 59'-3"
¢ HOLES
PANEL NO. A1E SIZE 20'-0" x 59'-3"
SEE DETAIL B1
SEE DETAIL B
CORE EL END
COLUMN EL END
DAMPING SADDLE
3" x 2" x 1/4" MK A2, A3
3" x 2" x 1/4" MK A1
COVER PLATE PLACEMENT
SEE DETAIL "F"
SEE DETAIL "D"
SEE DETAIL "G"
SEE DETAIL "E"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
COVER PLATES 29 GA. THICK
DETAIL "C"
SECTION E-E
DETAIL F
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 22300
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION A-A END SUPPORT ANGLES
DETAIL J END SUPPORT ANGLE ATTACHMENT
¢ EXT COL REF LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 22300
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1E	6	C32T1E - 59'-3"	ST201E
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3" x 2" x 1/4 ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	7-12-68	GENERAL	T.M.C.

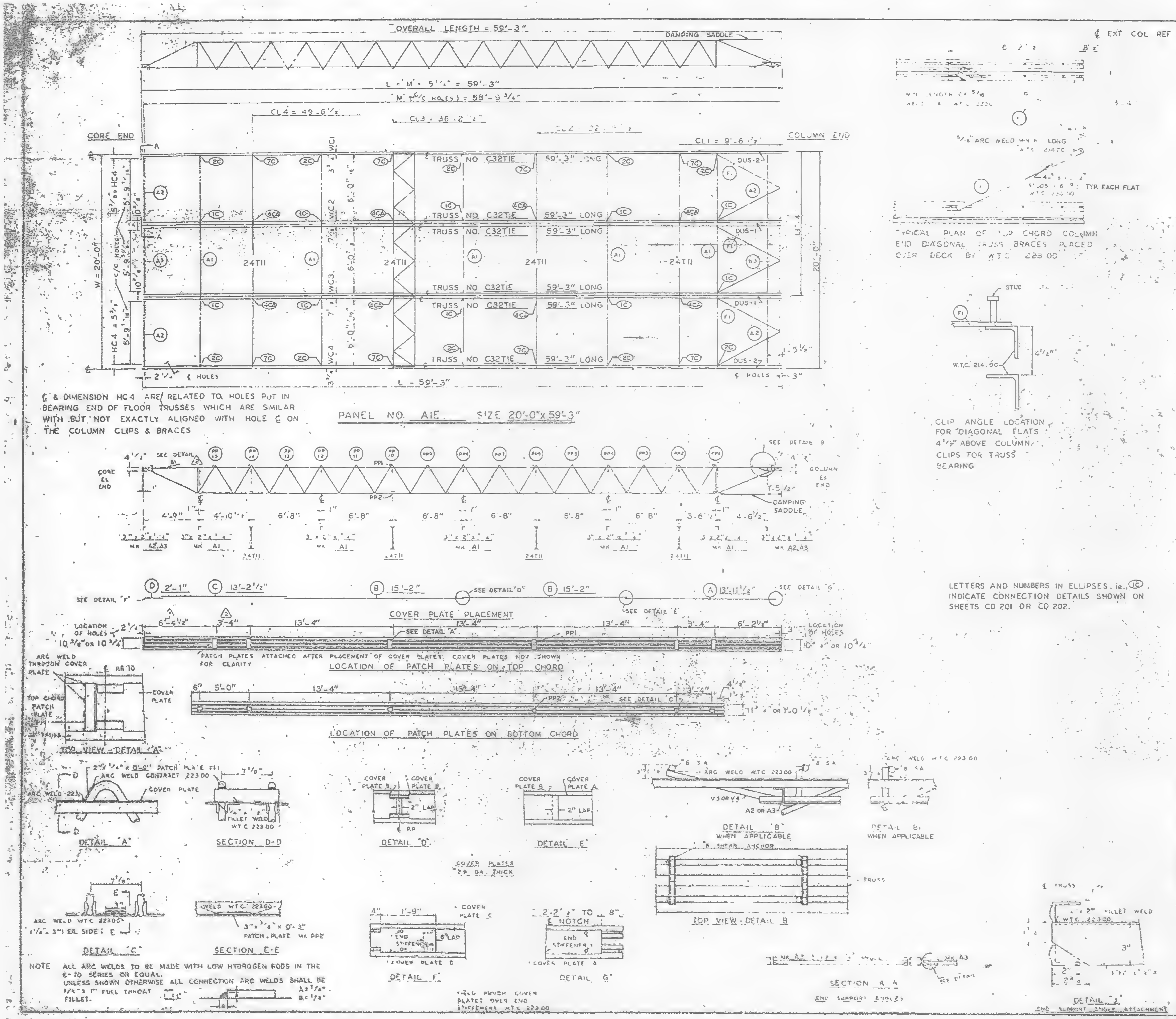
REF DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
2	SA 124	1-6-69
	7-AB3-2	1-3-68
	7-AB1-2	7-22-68
	7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (SOUTH)
PANEL A1E [illegible]-0" x [illegible]

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA	DATE 1/2/70	DRAWN BY R.A. DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A C WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO FP A1E



¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 3/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x8 1/2"	ST400
	P2	8	4 1/2"x.39"x0'-9"	ST400
	P3	8	4 1/2"x.39"x1'-0"	ST400

NO.	DATE	REVISION	BY
2	9-27-69	AS NOTED	RJF
1	7-12-68	GENERAL	T.M.

REF. DRWG

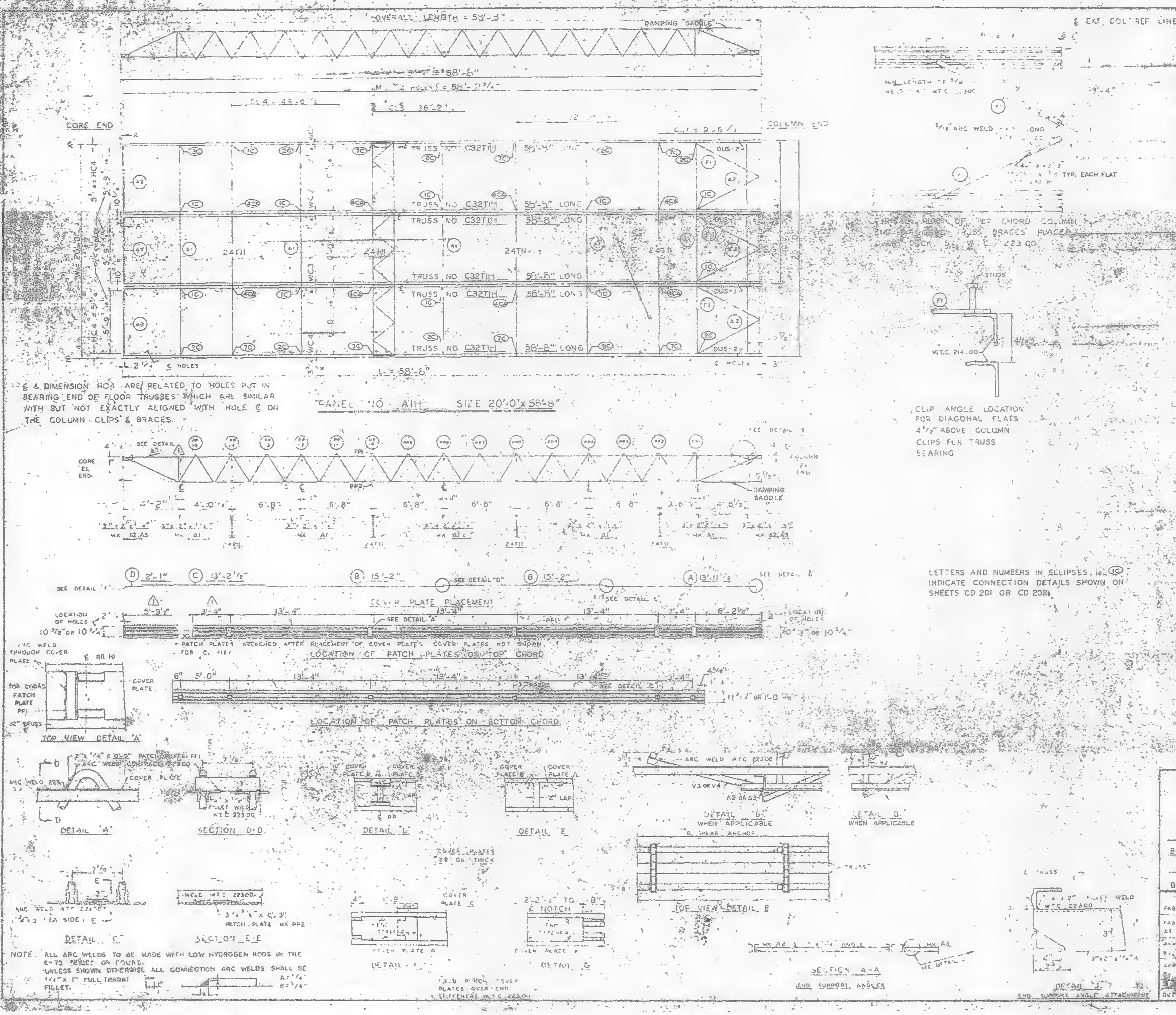
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
2	SA-124	1-5-69
	7-AB3-2	1-3-68
	7-AB1-2	7-22-68
	7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (SOUTH)
PANEL A1E = 20'-0" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3	PLATE [illegible]
APPROVED FOR FABRICATION BY [illegible] NEW YORK, N.Y.	DATE [illegible]	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY [illegible]	DATE	CHECKED BY J.R. PAUL DATE FEB 23, 1968	IN CHARGE OF PROD. DIV.
DETAILED BY A.G. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET CFP A1E



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. A1H SIZE 20'-0"x 58'-8"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	6	C32T1H - 5...	[illegible]
BRIDGING TRUSSES	T11	4	24T11 - 18'-8"	[illegible]
ANGLE	A1	5	3"x2"x1/4"x 19'-11"	[illegible]
	A2	4	3"x2"x1/4"x 5'-4 1/16"	[illegible]
	A3	2	3"x2"x1/4"x 5'-11 3/16"	[illegible]
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 5'-8"	[illegible]
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	[illegible]
	PP2	24	3" x 3/8" x 0'-3"	ST 300
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST296
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-5 7/8"	ST296
CONNECTION BAR	CB1	8	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	F1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

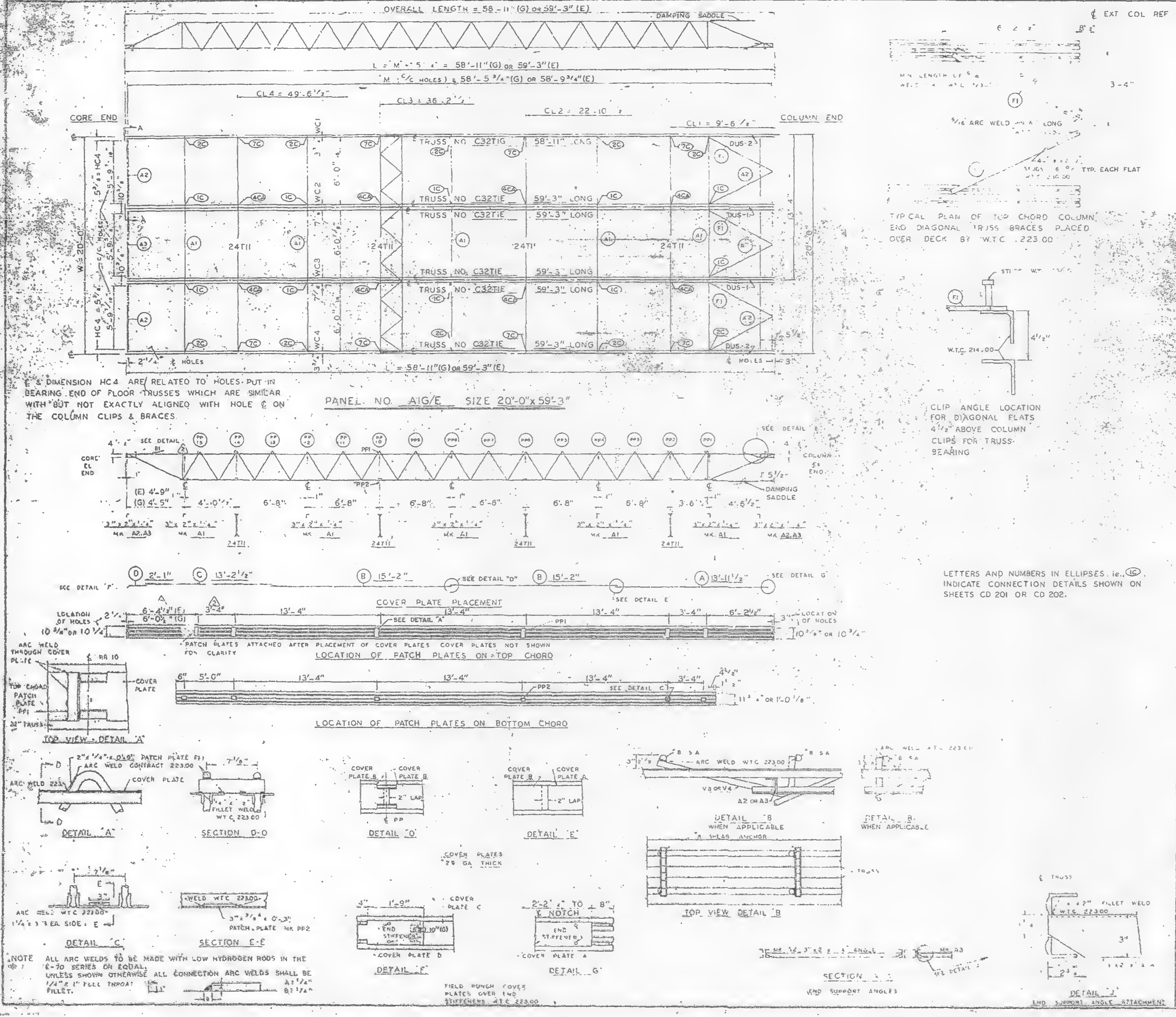
NO.	DATE	REVISION
1	6-27-69	AS NOTED

REF DRWGS
7-AB3-3
7-AB4-15
7-AB4-4
SA (NEW)
7-AB3-2
7-AB1-2
7-AB2-6

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 70 80 (N)
PANEL A1I
BLDG. B FLOORS 79 & 80 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN (DRAWING) NO. 7-AB3-3
APPROVED FOR FABRICATION BY | DATE
DRAWN BY | DATE FEB 24 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR | DATE
CHECKED BY T. CHURA | DATE OCT. 1968
DETAILED BY [illegible]
FABRICATION CONT. NO. [illegible]


OVERALL LENGTH = 58'-11" (G) OR 58'-3" (E)
DAMPING SADDLE
L = M + 5 ½" = 58'-11" (G) OR 59'-3" (E)
M (¢/¢ HOLES) = 58'-5 ¾" (G) OR 58'-9 ¾" (E)
CL4 = 49'-6 ½"
CL3 = 36'-2 ½"
CL2 = 22'-10 ½"
CL1 = 9'-6 ½"
CORE END
COLUMN END
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIE 59'-3" LONG
24TII
DUS-2
DUS-1
PANEL NO. AIG/E SIZE 20'-0" x 59'-3"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
COVER PLATES 28 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 ½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
¢ EXT COL REF LINE

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. ORWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	5	C32TIE - 59'-3"	ST201E
	TIG	1	C32TIG - 58'-11"	ST201G
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	ST211
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2	ST303
	D	4	5" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST290
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST290
CONNECTION BAR	CB1	8	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 0'-8"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.
1	7-12-68	GENERAL	T.H.

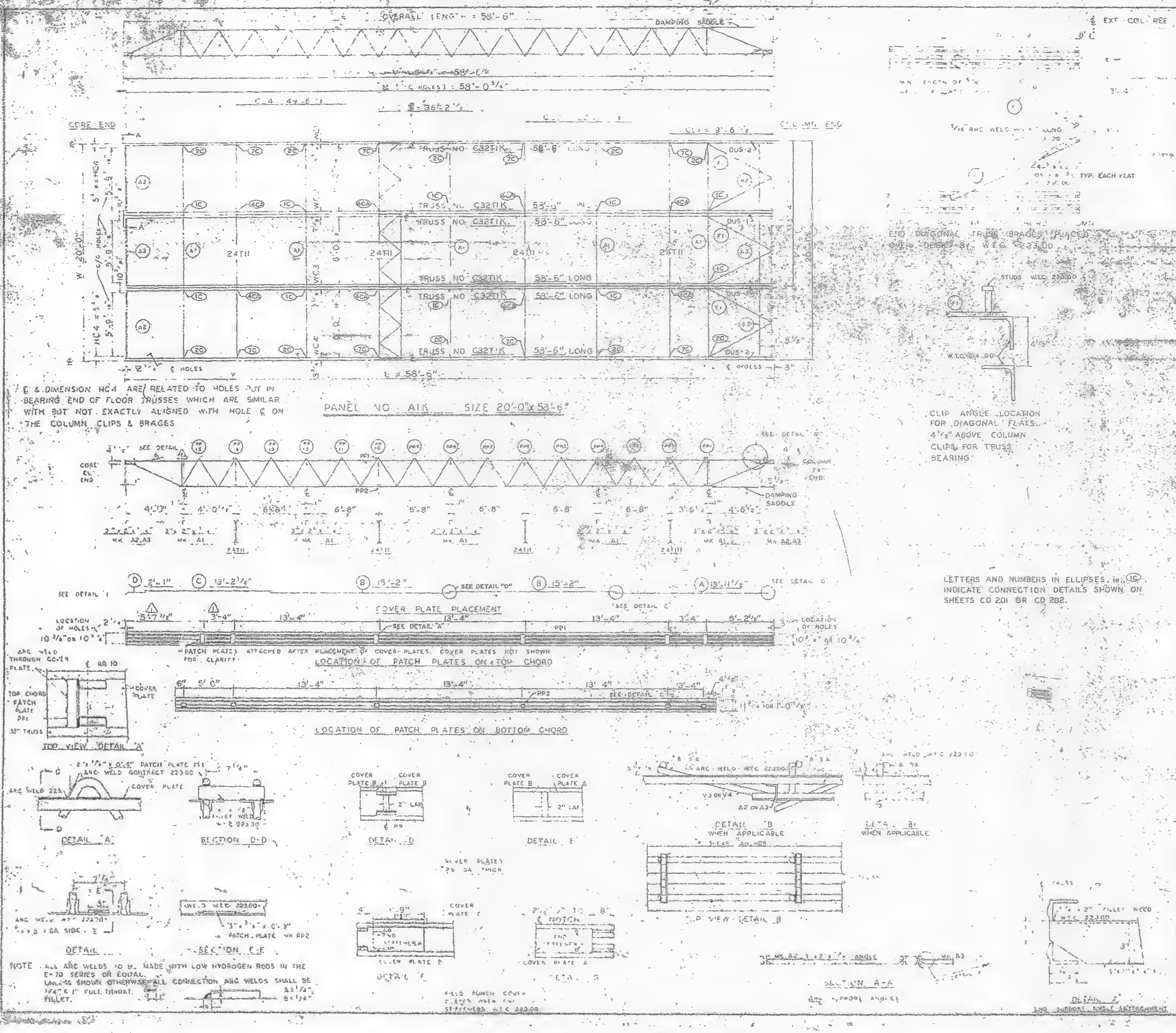
REF. DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
	SA-124	1-6-69
	7-AB3-2	1-3-68
2	7-AB1-2	7-22-68
	7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (NORTH)
PANEL AIG/E 20'-0" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-4	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.B. FAIR DATE FEB 24, 1968	IN CHARGE OF
DETAILED BY		FABRICATION CONT. NO. W.T.C. 221	SHEET FB AIG/E



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/16" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T12	6	C32T1K - 58'-6"	ST201A
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	[illegible]
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x19'-11"	ST 403
	A2	4	3"x2"x¼"x5'-11 9/16"	ST 403
	A3	2	3"x2"x¼"x5'-11¾"	ST 403
DIAGONAL FLATS	F1	6	1½"x⅝"x5'-6"	ST 402
PATCH PLATES	PP1	24	2"x¼"x0'-9"	ST 400
	PP2	24	3"x⅜"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11½"	ST303
	B	6	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"φ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½"x⅜"x6½"	ST 400
	P2	8	4½"x.39"x0'-9"	ST 400
	P3	8	4½"x.39"x1'-0"	ST 400

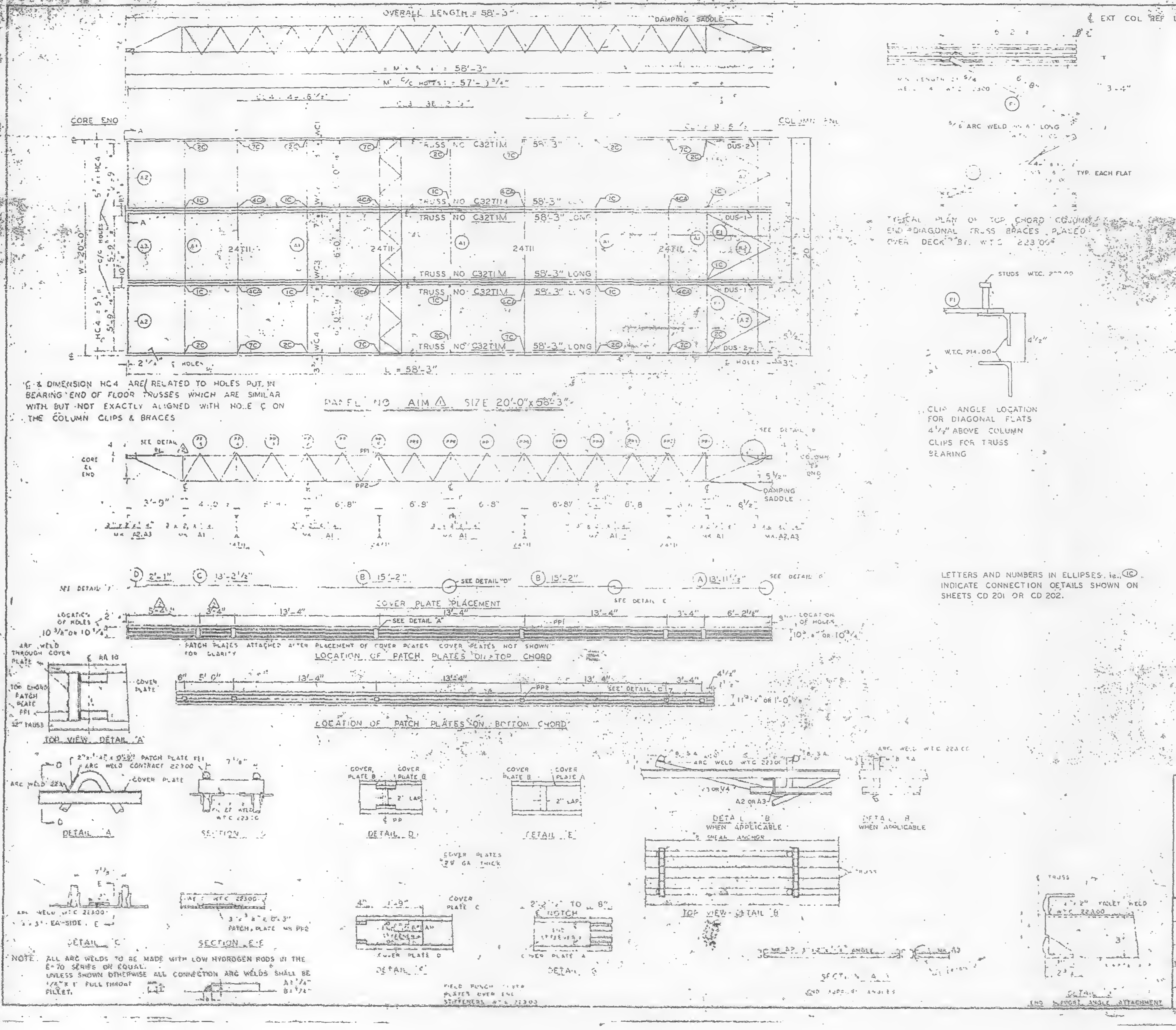
NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	RA

REF DRWG
7-AB2-3 10-15-68
7-AB4-15 & 16 7-22-68
7-ABA-41 7-22-68
SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS
PANEL AIK
BLDG. B FLOORS 45 (EAST) 46 (EAST & WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB2-3
APPROVED FOR FABRICATION FOR PONYA DATE
DRAWN BY DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT. 11, 1968
FABRICATION CONT NO W.T.C. - 221
SHEET FP



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/8" x 1" FULL THROAT FILLET.
A = 3/4"
B = 3/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1M	6	C32T1M - 58'-3"	ST201M
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	B 211
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 5/16"	ST 403
	A3	2	3"x2"x1/4"x5'-10 3/4"	ST 403
DIAGONAL FLATS	F	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	10	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS2	2	3 1/2"x3 1/2"x3/8"x3'-5 7/8"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

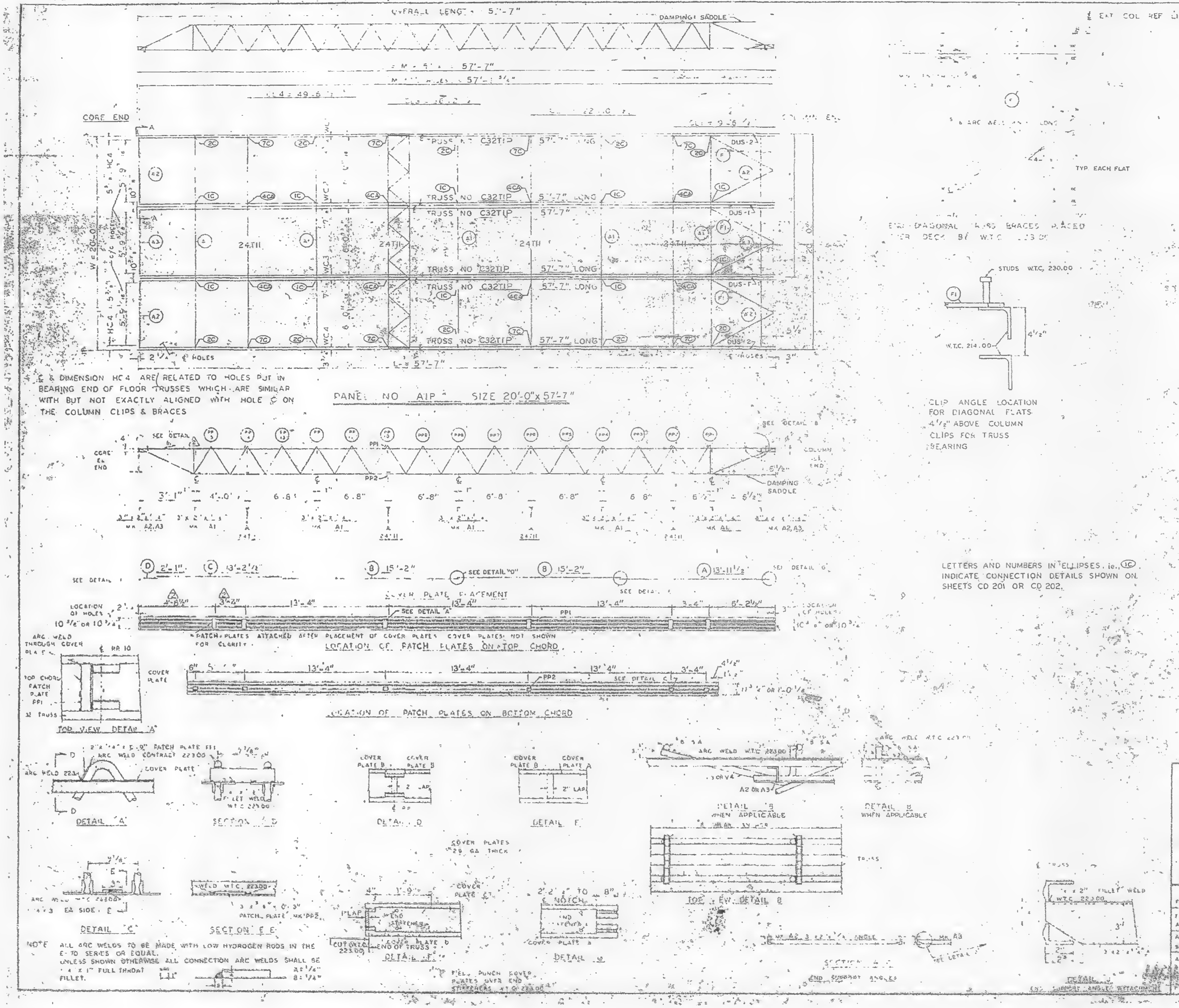
NO	DATE	REVISION	BY
⚠2	5-27-69	AS NOTED	RJ
⚠1	10-21-68	AS NOTED	G

REF. DRWG.
7-A84-3 10-15-68
7-A84-15 & 18 7-22-68
7-A84-41 7-22-68
SA-12-4 1-6-69 ⚠2
7-A83-2 1-3-68
7-A81-2 7-22-68
7-A82-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL A1M ⚠1 20'-0" X 58'-3"
BLDG. B FLOORS 72 & 73 (WEST) ⚠2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-3
PLATE 5
APPROVED FOR FABRICATION BY [illegible] FOR PORT AUTHORITY DATE [illegible]
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHUPA DATE OCT. 11, 1968
IN CHARGE OF ENGR.
DETAILED BY A. C. WEBER
FABRICATION CONT. NO WTC-221
SHEET NO. FB



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

PANEL NO A1P SIZE 20'-0" x 57'-7"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	6	C32T1P - 57'-7"	ST204
BRIDGING TRUSSES	T11	4	24T11 - 19'-1"	ST2
3" x 2" x 1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-4 1/8"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST401
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	24	9"x.0135"x13'-8 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST302
	C	4	9"x.0135"x13'-2 1/2"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x7/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x7/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x8 1/2"	ST400
	P2	8	4 1/2"x.30"x0'-9"	ST400
	P3	8	4 1/2"x.30"x1'-0"	ST400

NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	RJJ
1	[illegible]	COVER PLATES	

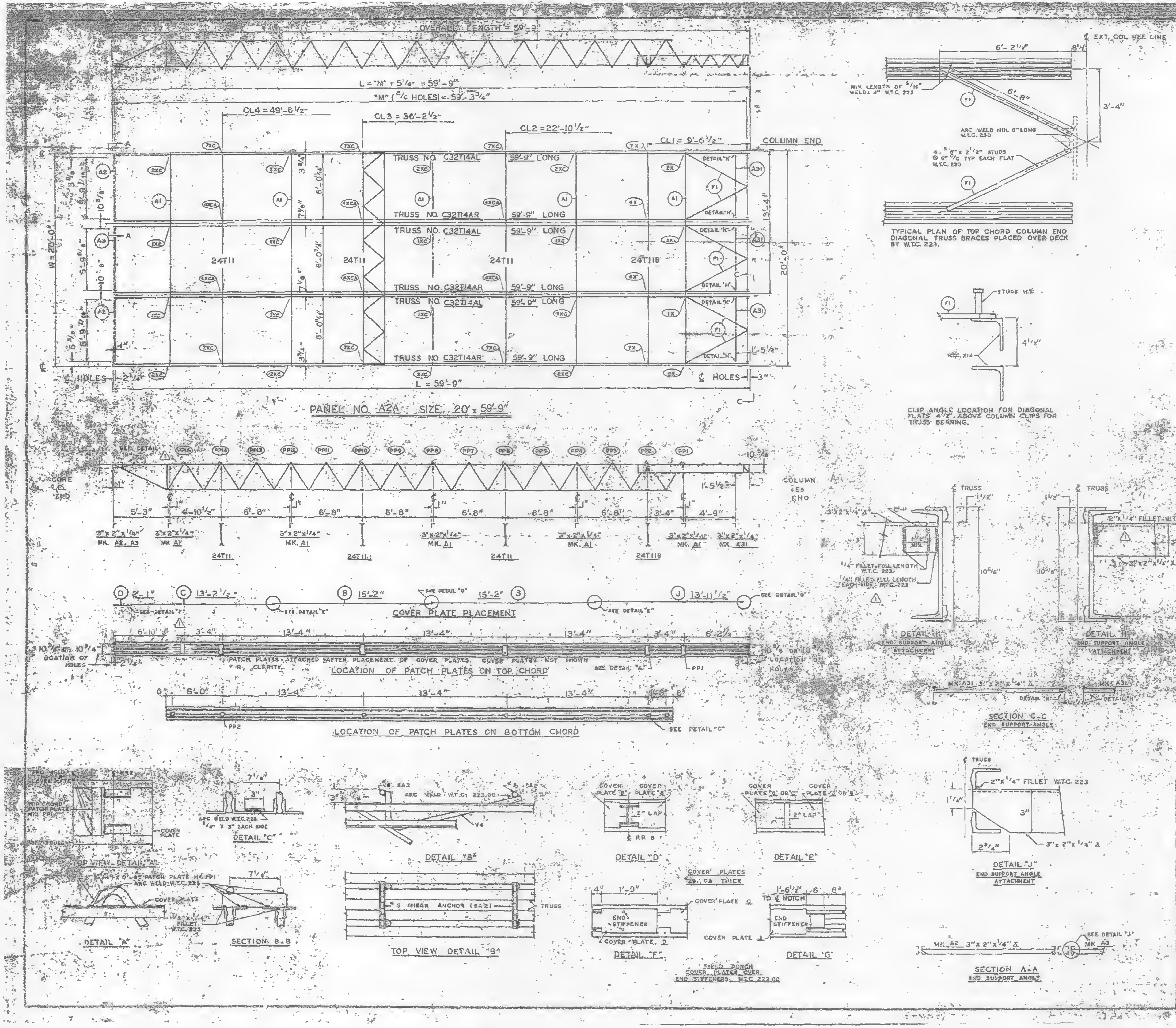
REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-41 7-22-68
2 SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 74 (N)
PANEL A1P - 20'-0" x 57'-7"
BLDG. B FLOORS 74 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7 AB3-3	PLATE
APPROVED FOR FABRICATION BY	DATE	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION	DATE	CHECKED BY J. CHUBA DATE OCT 11, 1968	IN CHARGE OF
DETAILED BY		FABRICATION CONT. NO. WTC 221	SHEET A1P


OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T11
24T11B
W = 20'-0"
L = 59'-9"
PANEL NO. A2A SIZE 20' x 59'-9"
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL PLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
TOP VIEW DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 20 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	ST 211
	T11B	1	24T11B x 19'-11"	ST 211B
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4" x 0'-9"	ST 400
	PP2	24	3"x 5/8" x 0'-3"	ST 400
COVER PLATES	B	8	9"x .0135" x 15'-[illegible]	ST 303
	C	4	9"x .0135" x 13'-2 1/2"	ST 303
	D	4	9"x .0135" x 2'-1"	ST 303
	J	4	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2"x 1 1/2"x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2"x 3/8"x 0'-8 1/2"	ST 400
	P2	8	4 1/2"x .39"x 0'-9"	ST 400
	P3	8	4 1/2"x .39"x 1'-0"	ST 400
	P9	8	3"x 1/2"x 1'-2"	ST 408

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
2	7-1-69	AS NOTED	G.D.
1	2-4-69	AS NOTED	G.D.C

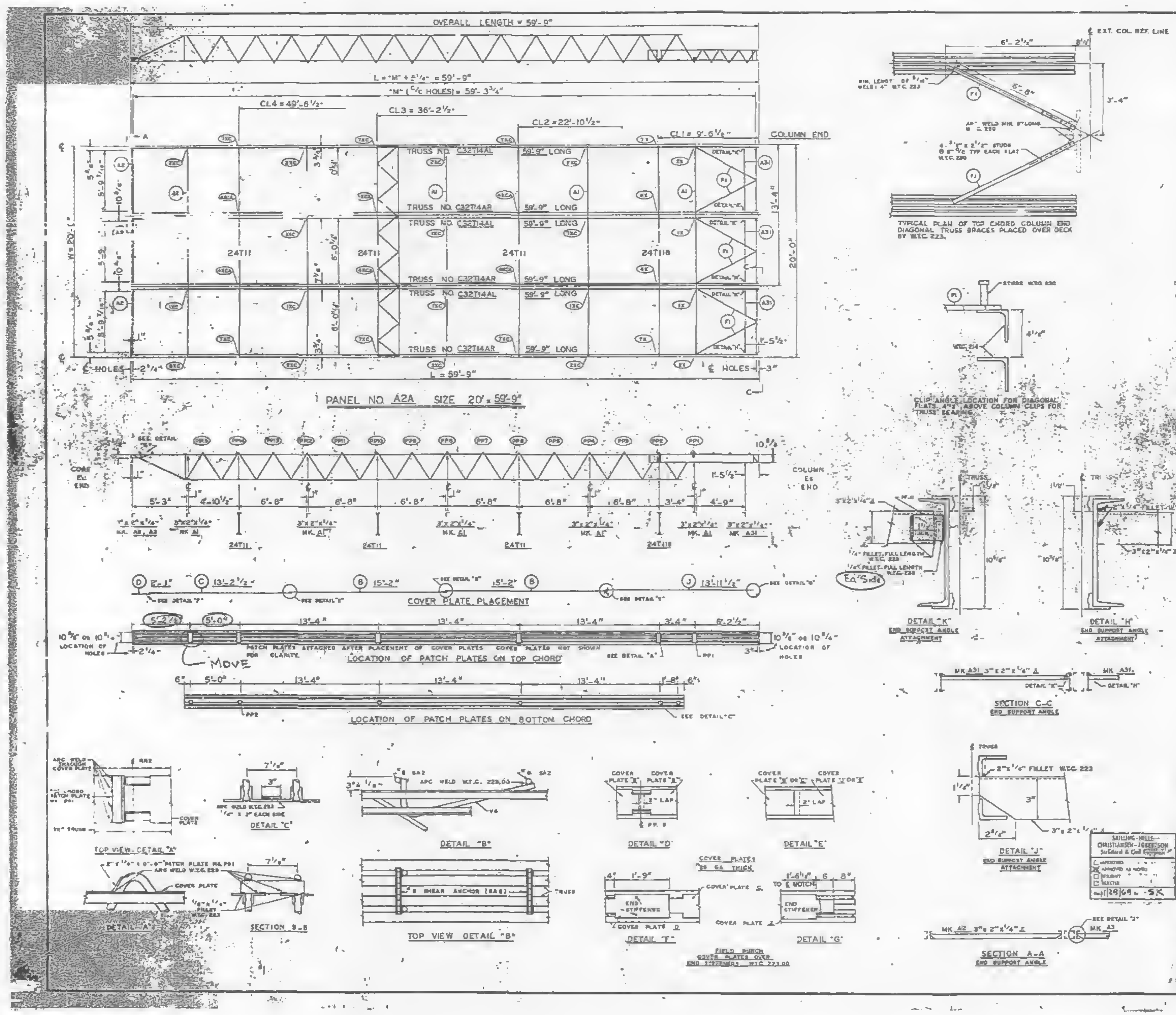
REF DRWG.

7-AB3-25	10-4-68
7-AB3-24	8-15-68
7-AB1-13	10-4-68
7-AB2-5	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
1
[illegible] x 59'-9"
BLDG B FLOORS 25 (EAST & WEST) 59 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible]
PLATE [illegible]
APPROVED FOR FABRICATION BY James [illegible] FOR P.O.N.Y.A
DATE 1/21/[illegible]
DRAWN BY [illegible]
DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR
DATE
CHECKED BY [illegible]
DATE DEC. [illegible] 1968
IN CHARGE [illegible]
LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET FD [illegible] A


OVERALL LENGTH = 59'-9"
PANEL NO. A2A SIZE 20' x 59'-9"
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T11
24T11B
COLUMN END
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
MOVE
Ea Side
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'-2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
TOP VIEW-DETAIL "A"
DETAIL "C"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
DETAIL "A"
SECTION B-B
TOP VIEW DETAIL "B"
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T-4AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AR
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	ST 211
	T11B	1	24T11B x 19'-11"	ST 211B
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 3/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/4"	ST 410
CLOSURE PLATES	[illegible]	[illegible]	[illegible]	[illegible]
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 3'-6"	ST 402
PATCH PLATES	PP1	24	2"x 1/4" x 0'-9"	ST 400
	PP2	26	3"x 5/8"x 0'-3"	ST 400
COVER PLATES	B	6	8"x .0135" x 15'-2"	ST 303
	C	4	8"x .0135" x 13'-2 1/2"	ST 303
	D	4	8"x .0135" x 1"	ST 303
	J	4	8"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2"x 1 1/2"x .25"x 0'-4"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-8"	ST 400
CONNECTION BAR	CB1	(10)	1" ϕ x 1'-3"	ST 400
	CB	2	1"ϕ x 1'-7	
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	16	4 1/2" x .30" x 0'-6"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400
	P8	8	3" x 1/2" x 1'-2"	ST 208
			[illegible]	

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e., (18)
ALL CONNECTION DETAILS FOR FLOORS 25, 50 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 223.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWG.

7-A83-25	10-4-68
7-B83-24	8-15-68
7-A81-13	10-4-68
7-A82-5	7-22-68
7-B82-15	10-4-68

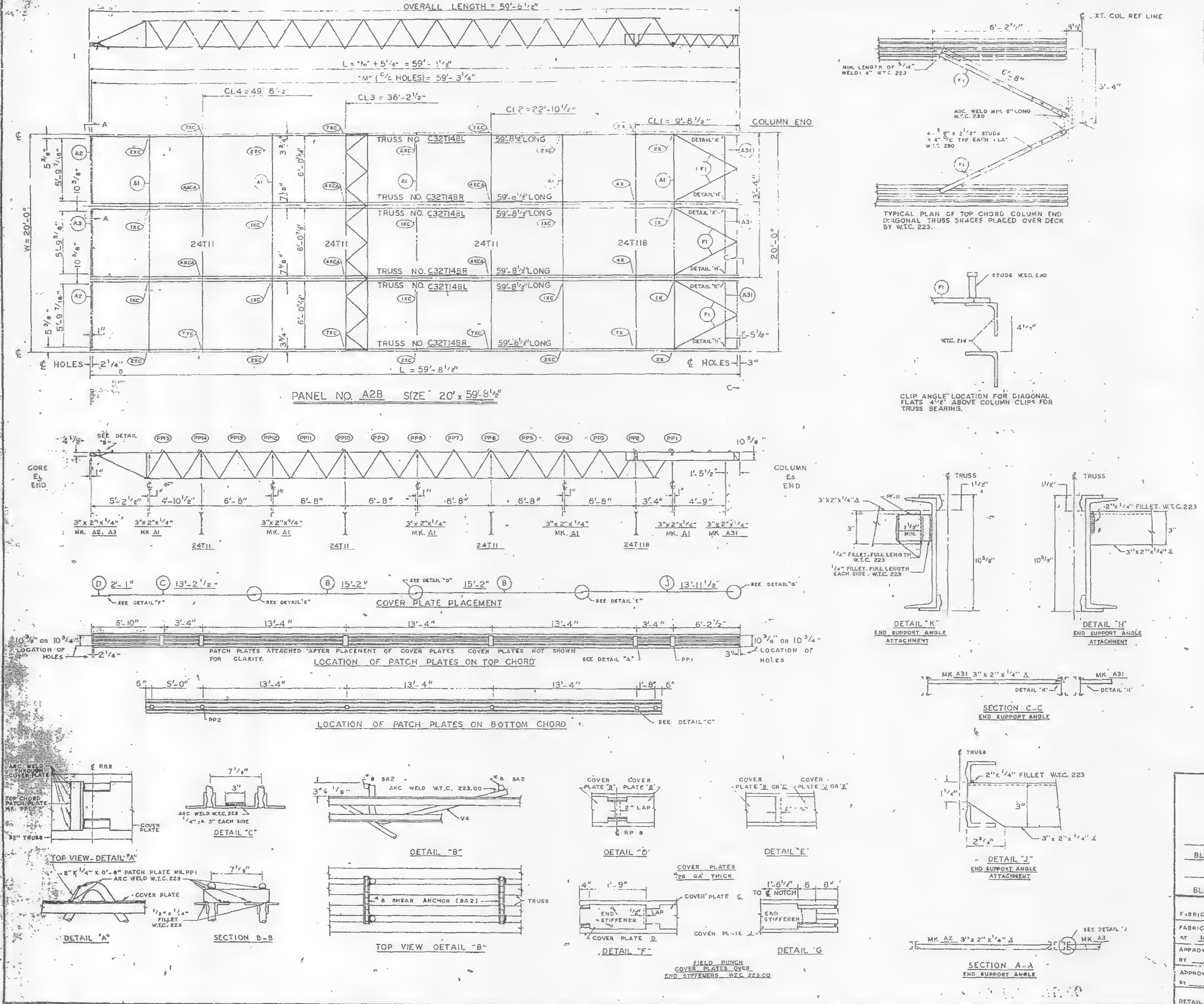
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25, ~~50 & 92~~ (NORTH & SOUTH), 59 (NORTH)

PANEL A2A - 20' x 59'-9"

SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
SK

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY [illegible] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY T.M. [illegible] DATE DEC. 5, 1968
IN CHARGE OF PROD. [illegible]
DETAILED BY LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP A2A


OVERALL LENGTH = 59'-6½"
L = "M" + 5¼" = 59'-3½"
"M" (C/C HOLES) = 59'-3¼"
CL 4 = 49'-6"
CL 3 = 36'-2½"
CL 2 = 22'-10½"
CL 1 = 9'-6½"
COLUMN END
TRUSS NO. C32T148L 59'-8½" LONG
TRUSS NO. C32T148R 59'-8½" LONG
24T11
24T11B
W = 20'-0"
20'-0"
℄ HOLES 2¼"
℄ HOLES 3"
L = 59'-8½"
PANEL NO. A2B SIZE 20' x 59'-8½"
CORE EL END
COLUMN ES END
3"x2"x¼" MK. A2, A3
3"x2"x¼" MK. A1
3"x2"x¼" MK. A31
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 20 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL [illegible]				REF.
MATERIAL	[illegible]	[illegible]	[illegible]	DRWG
FLOOR TRUSSES	T148L	3	[illegible] x 59'-8½"	ST 2148L
	T148R	[illegible]	[illegible] x 59'-8½"	ST 2148L
BRIDGING TRUSSES		[illegible]	[illegible]	ST 211
			[illegible]	ST 218
3"x 2"x ¼" ANGLE	[illegible]		[illegible] 9'-11"	ST 403
	[illegible]		[illegible] 11 9/16"	ST 403
			[illegible] 11¾"	ST 403
			[illegible]	ST 410
CLOSURE PLATES	[illegible]	[illegible]	[illegible]	ST 4[illegible]
DIAGONAL FLATS	F1	6	1½" x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x ¼" x 0'-9"	ST 400
	PP2	24	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	B	8	9" x .0135" x 15'-2"	ST 303
	C	4	9" x .0135" x 13'-2½"	ST 303
	D	4	9" x .0135" x 2'-1"	ST 303
	J	4	9" x .0135" x 13'-11½"	ST 304
ANGLE CLIPS	C1	24	2" x 1½" x 25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½" x ⅜" x 0'-6½"	ST 400
	P2	8	4½" x .39" x 0'-9"	ST 400
	P3	8	4½" x .39" x 1'-0"	ST 400
	P8	8	3" x ½" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x¼" FULL THROAT FILLET.

A = ¼"
B = ¼"

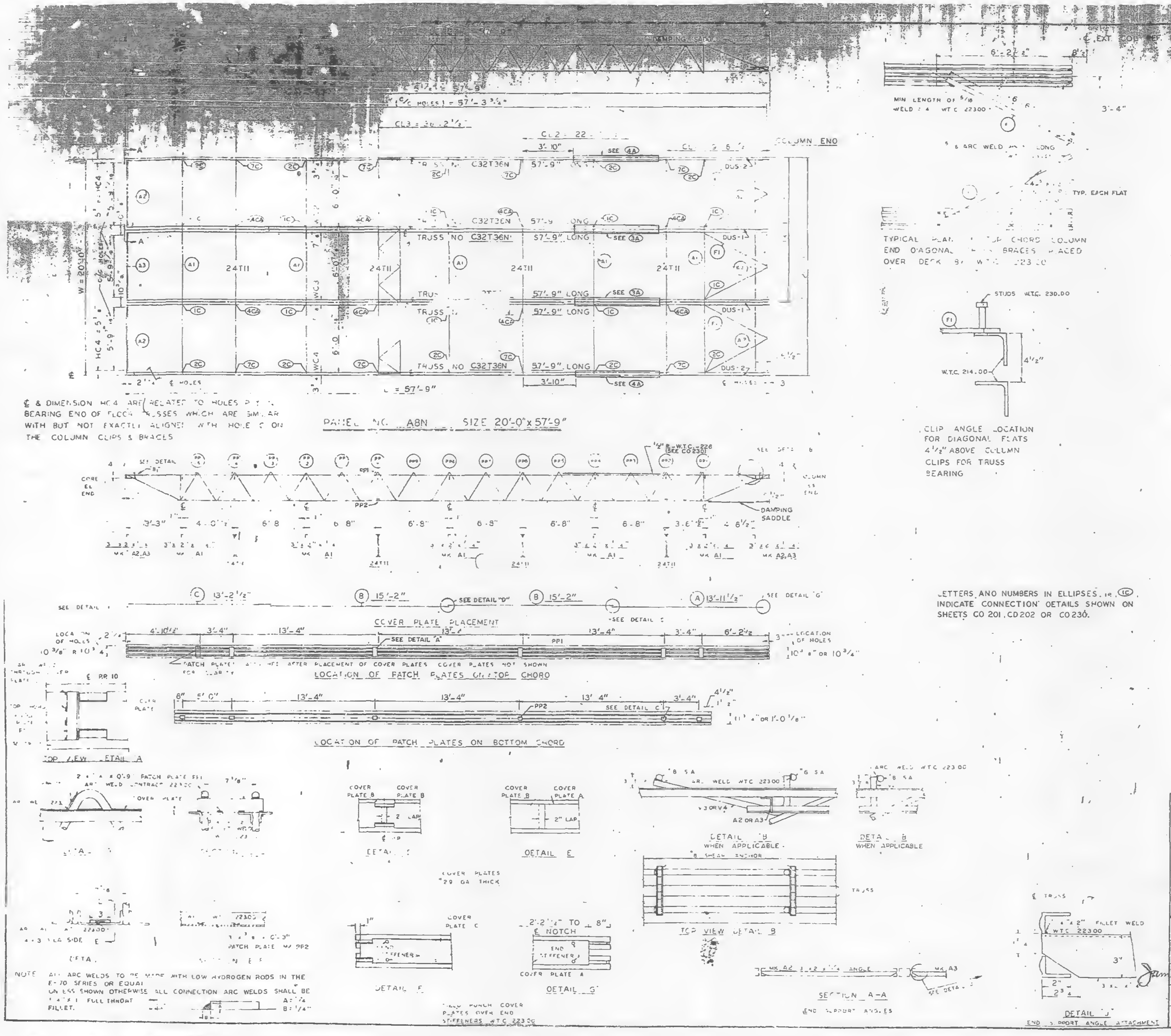
NO.	DATE	REVISION	BY

REF. DRWG.	
7-AB3-25	10-4-68
7-AB3-24	8-15-68
7-AB1-13	10-4-68
7-AB2-5	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
WORLD TRADE CENTER N Y C
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)
PANEL A2B 20' x 59'-8½"
BLDG B FLOORS 92 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 9/69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A.C. WEBER
DESIGN DRAWING NO
PLATE
DRAWN BY [illegible]
DATE APRIL 28, 1969
CHECKED BY T.M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. 221
SHEET NO. FP A2B



℄ & DIMENSION HC4 ARE RELATED TO HOLES [illegible] BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN [illegible] TOP CHORD COLUMN END DIAGONAL [illegible] BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CO 201, CD 202 OR CO 230.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.
A = ¼
B = ¼"

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T36N	6	C32T36N - 57'-9"	[illegible]
BRIDGING TRUSSES	T11	4	24T11 - 19'-1"	[illegible]
3 x 2 x ¼ ANGLE	A1	5	3" x 2" x ¼" x 19'-11"	ST 403
	A2	4	3" x 2" x ¼" x 5'-11"	ST 403
	A3	2	3" x 2" x ¼" x 5'-11"	ST 403
DIAGONAL FLATS	F1	6	1½" x ⅝" x 0'-8"	ST 402
PATCH PLATES	PP1	24	2" x ¼" x 0'-9"	ST 400
	PP2	24	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11½"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2½"	ST303
ANGLE CLIPS	C1	24	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	2	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	8	[illegible] x [illegible]-3"	ST 400
CONNECTION PLATES	P1	10	3½" x ⅜" x 3½"	ST 400
	P2	8	4½" x .39" x 0'-9"	ST 400
	P3	8	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG

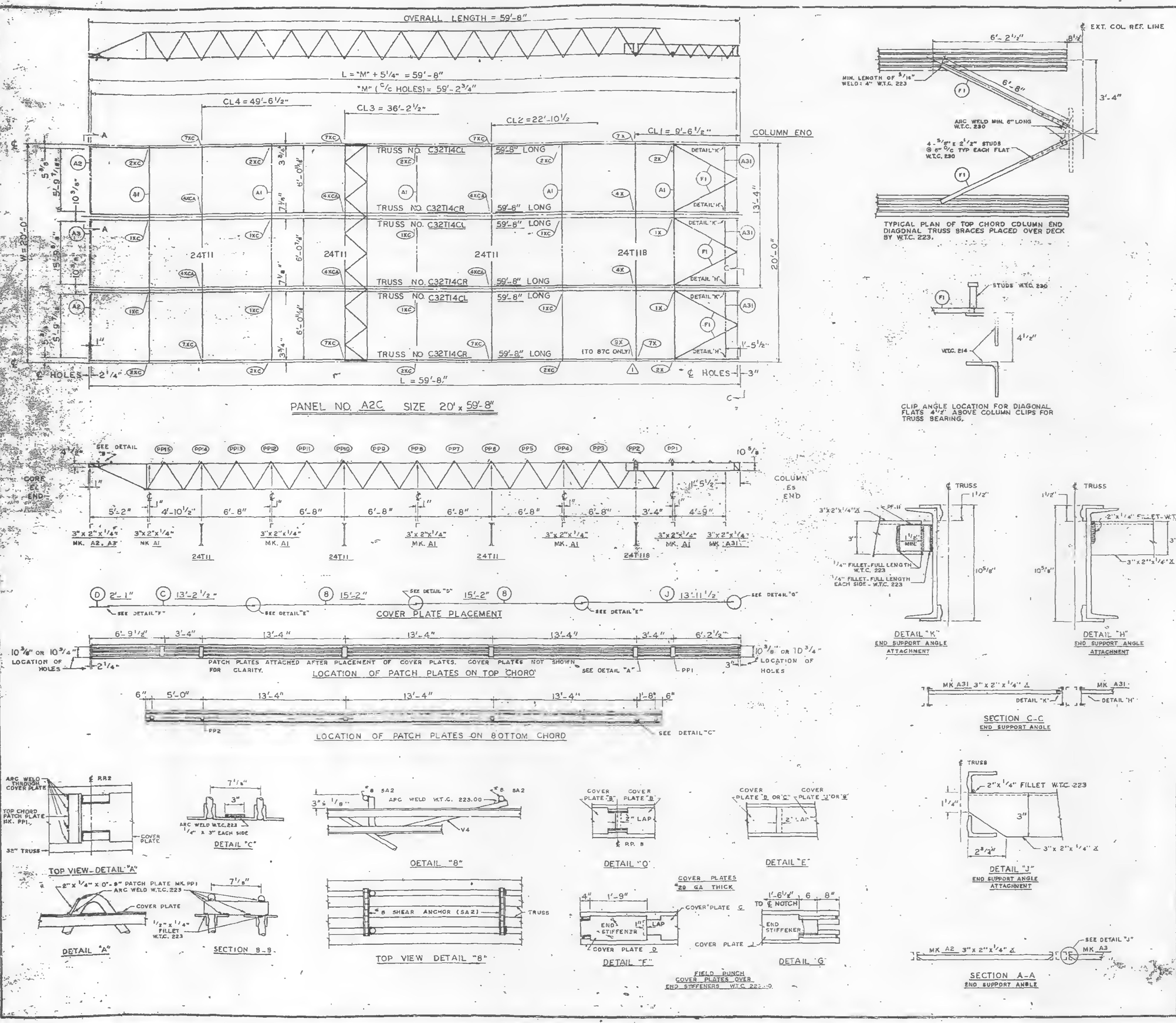
7-AB4-3	10-15-68
7-AB4-15,16,39 & 41	7-22-68
7-AB4-3.1	1-3-68
SA 124	1-6-68
7-AB3-53	1-6-69
7-AB1-32	1-6-69
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 44 (SOUTH ONLY)
PANEL A8N - 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7 AB3-53	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A	DATE 4/22/69	DRAWN BY [illegible] DATE APRIL 1, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE APRIL 1, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY [illegible] WEBER LACLEDE STEEL CO.		FABRICATION CONT NO W.T.C. 221	SHEET NO FP A8N



OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14CL
59'-8" LONG
TRUSS NO. C32T14CR
24T11
24T11B
DETAIL "K"
DETAIL "H"
W = 20'-0"
20'-0"
13'-4"
℄ HOLES
L = 59'-8"
(TO 87C ONLY)
PANEL NO. A2C SIZE 20' x 59'-8"
SEE DETAIL "B"
CORE ℄ END
COLUMN ℄S END
5'-2"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
2'-1"
13'-2 1/2"
15'-2"
13'-11 1/2"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
10 3/8" OR 10 3/4" LOCATION OF HOLES
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION 8-8
DETAIL "8"
TOP VIEW DETAIL "8"
#8 SHEAR ANCHOR (SA2)
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 29 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223
EXT. COL. REF. LINE
6'-2 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 3/16" WELD: 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4-3/4" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET W.T.C. 223
SECTION A-A END SUPPORT ANGLE
MK A2 3"x2"x1/4" ∠
MK A3

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	ST 211
	T118	1	24T118 x 19'-11"	ST 218
3"x 2"x 1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	2	3"x2"x1/4"x5'-11 3/16"	ST 403
	A3	1	3"x2"x1/4"x5'-11 3/16"	ST 403
	A31	3	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4" x 0'-9"	ST 400
	PP2	24	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	8	9"x .0135" x 15'-2"	ST 303
	C	4	9"x .0135" x 13'-2 1/2"	ST 303
	D	4	9"x .0135" x 2'-1"	ST 303
	J	4	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	8	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	8/7*	4 1/2" x .39" x 0'-9"	ST 400
	P3	8/7*	4 1/2" x .39" x 1'-0"	ST 400
	P9	8	3"x 1/2"x 1'-2"	ST 409
	P10	1*	4 1/2" x .39" x 5"	ST 409
	P11	1*	3" x 1/4" x 6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

⚠1 MATERIAL MARKED (*) IS FOR BLDG. B-EAST PANEL ONLY.

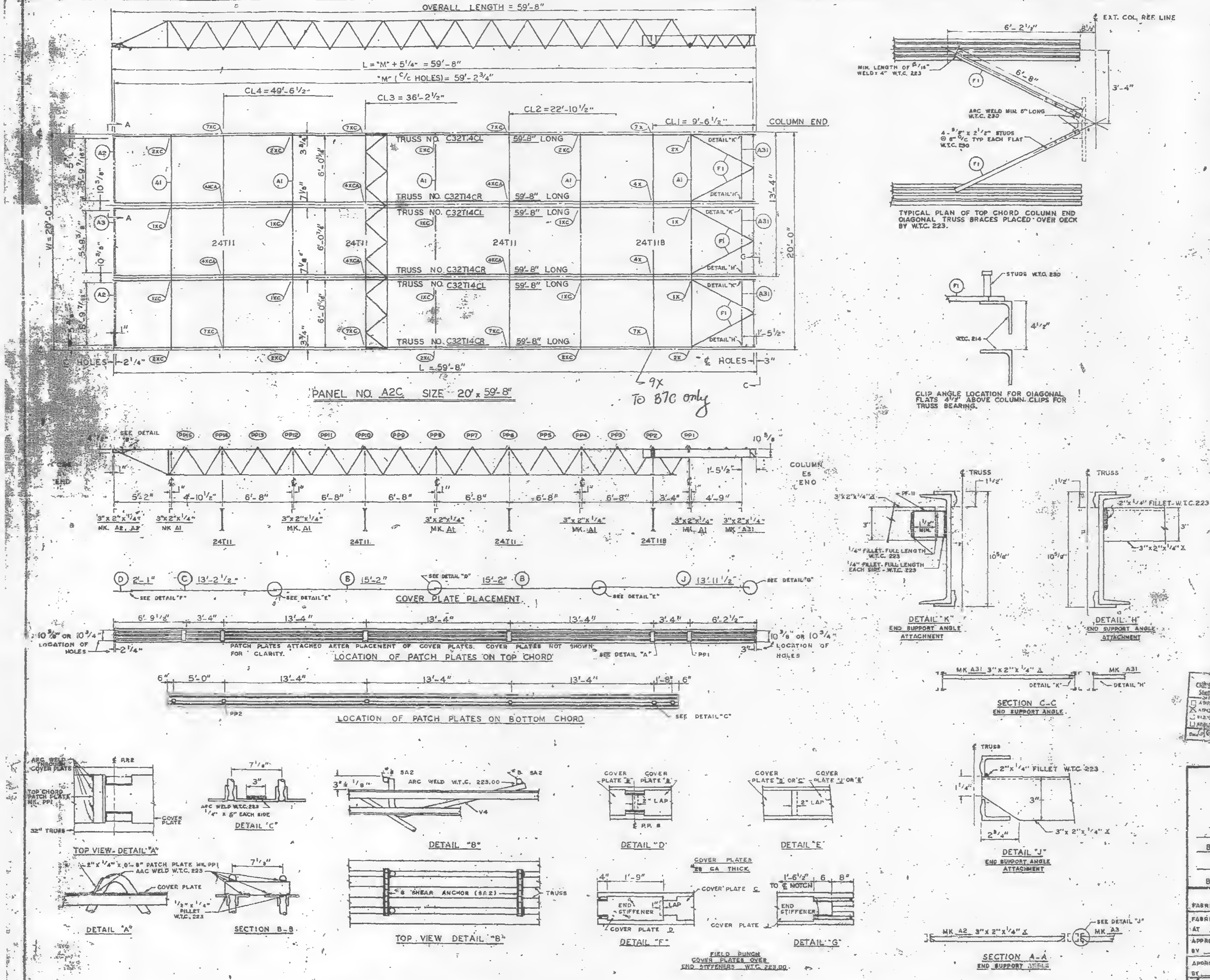
NO.	DATE	REVISION	BY
⚠1	8-13-69	AS NOTED	G.D.C.

REF. DRWG.		
	7-A83-23	10-4-68
	7-A83-24	8-15-68
	7-A81-13	10-4-68
	7-A82-5	7-22-68
	7-A82-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL A2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/28/69
DRAWN BY ... DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 26, 1969
IN CHARGE OF PROD. DEPT.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP A2C



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CR
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	BT 211
	T118	1	24T118 x 19'-11"	BT 2118
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/8" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4" x 0'-9"	ST 400
	PP2	24	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	8	9"x .0135" x 15'-2"	ST 303
	C	4	9"x .0135" x 13'-2 1/2"	ST 303
	D	4	9"x .0135" x 2'-1"	ST 303
	J	4	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2"x 1 1/2"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2"x 3/8" x 0'-6 1/2"	ST 400
	P2	8 7*	4 1/2"x .39" x 0'-9"	ST 400
	P3	8 7*	4 1/2"x .39" x 1'-0"	ST 400
	P9	8	3"x 1/2"x 1'-2"	ST 409
	P10	1*		
	P11	1*		

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

Material marked * are for
Bldg B East Panel only

NO.	DATE	REVISION	BY

[illegible]-HELLE
[illegible] ROBERTSON
Structural & Civil Engineers
☐ [illegible]
☒ APPROVED AS NOTED
☐ [illegible]
☐ [illegible]
Date 6/6/69 By SK

REF. DRWG.		
	7-AB3-25	10-4-68
	7-AB3-24	8-15-68
	7-AB1-13	10-4-68
	7-AB2-5	7-22-68
	7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

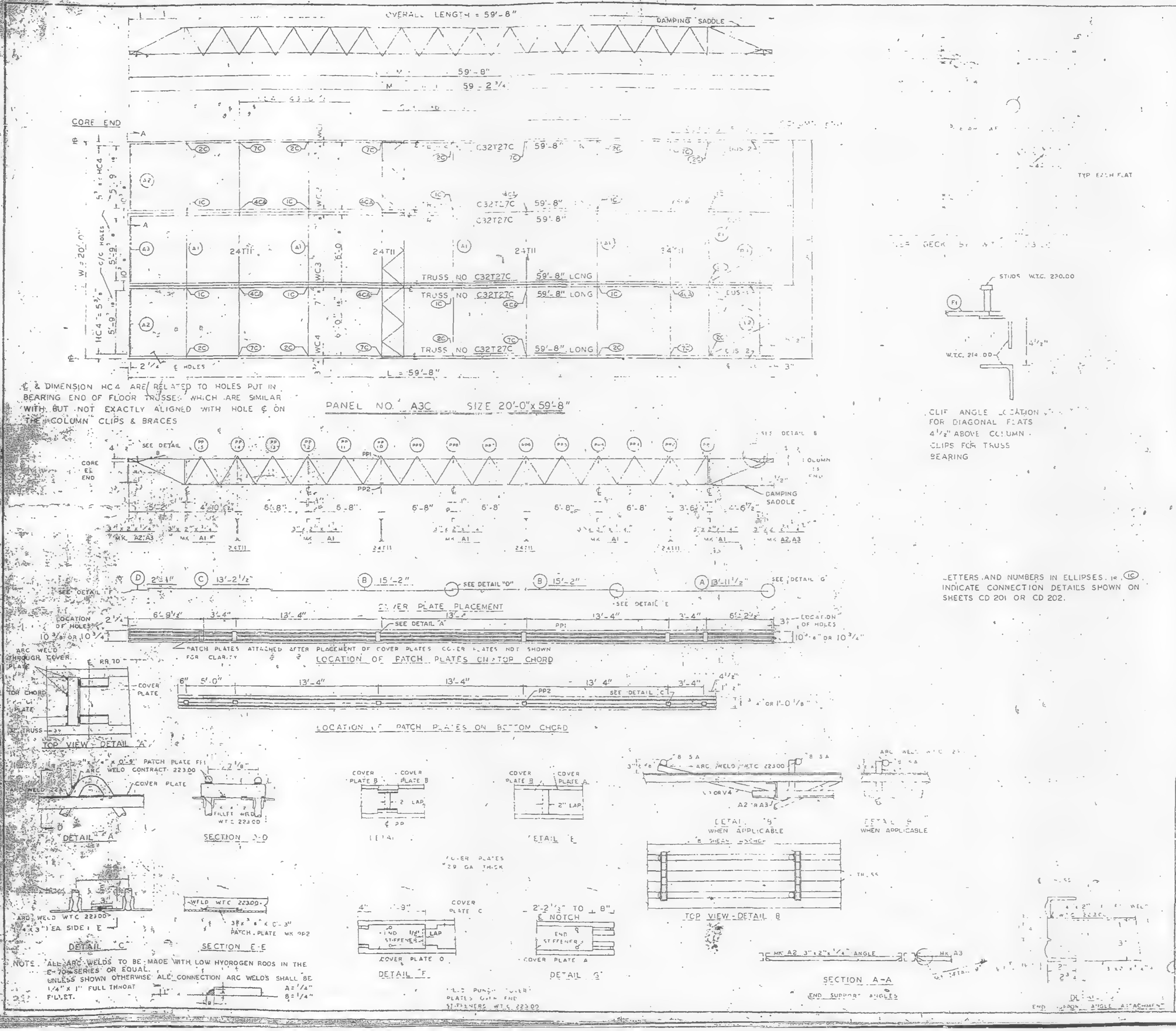
BLDG. A FLOORS 59 & 92 (SOUTH)

PANEL A2C - 20' x 59'-8"

BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO.	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO.	DATE	CHECKED BY T.R. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEST		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP A2C



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

	MK	PCS	SIZE	REF. DRWG
	27C	6	C32T27C- 59'-8"	ST227C
	[illegible]	4	24T[illegible]	[illegible]
	A1	5	3" x 2" x [illegible] x 9'-11"	ST 4[illegible]3
	A2	4	[illegible] x 5'-11 9/16	[illegible]4[illegible]3
	A3	2	[illegible] x 5'-[illegible] 3/4"	ST 4[illegible]
	F1	6	[illegible]	[illegible]
PATCH PLATES	PP1	24	[illegible]	ST 400
	PP2	24	3 [illegible]	ST 400
COVER PLATES	A	4	9" x 0135" x 13'-11 1/2"	ST303
	B	8	9" x 0135" x 15'-2"	ST303
	C	4	9" x 0135" x 13'-2 1/2"	ST303
	D	4	[illegible] x 2-1"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-5 7/8"	ST298
CONNECTION BAR	CB1	2	[illegible] x [illegible]-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 5 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO	DATE	REVISION	BY

AB4-[illegible]	10-15-68
AB4 5 & 16	7-22-68
AB4 41	7-22-68
SA 24	1-6-69
AB3 42	1-6-69
AB 24	1-6-69
AB2 5	7-22-68

NEW YORK AUTHORITY

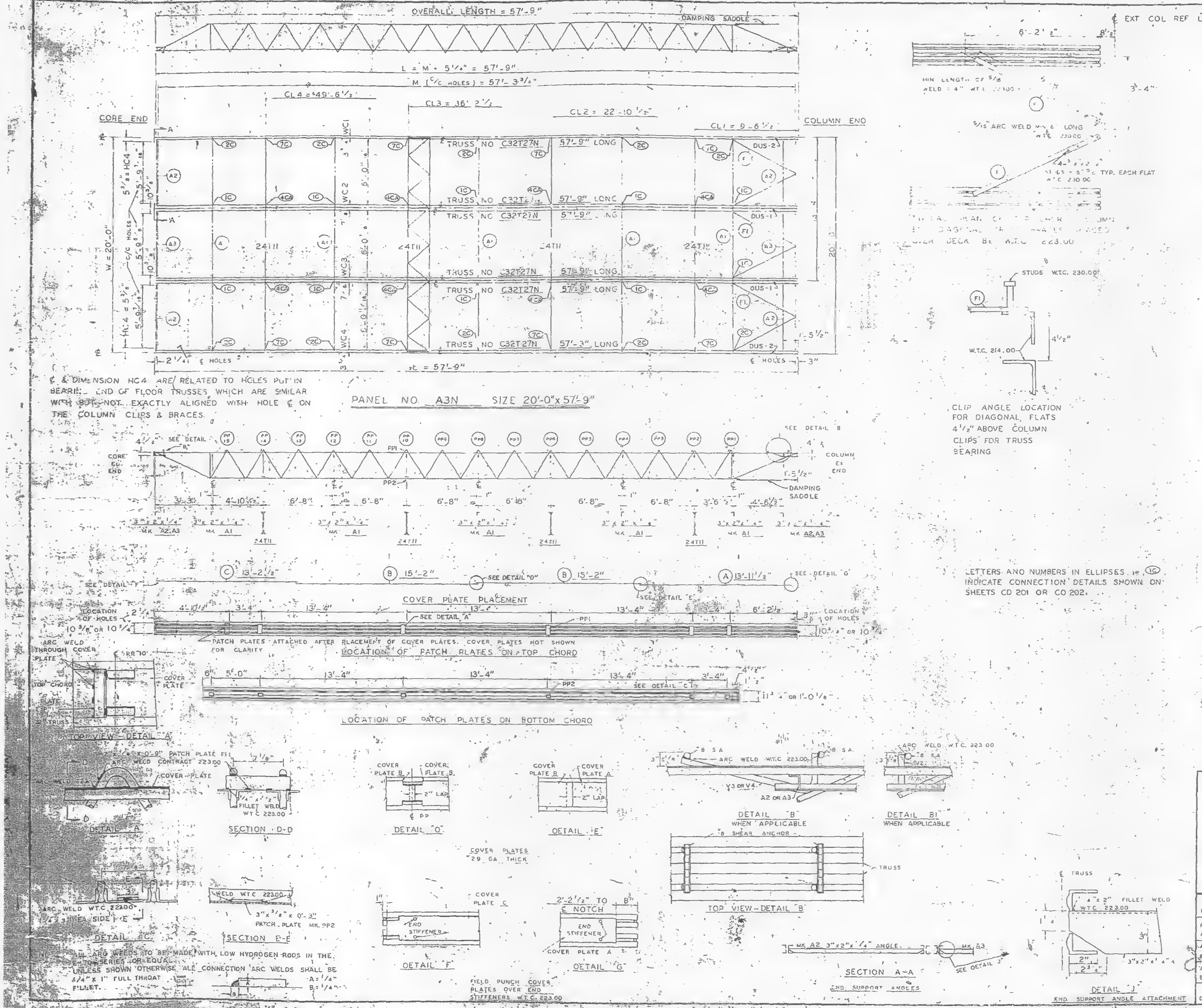
BLDG [illegible] FLOORS 76 (SOUTH)

PANEL A3C [illegible] x 59'-8"

BLDG B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO AB3-42	PLATE
APPROVED FOR FABRICATION BY [illegible] PONYA	DATE 7/31/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR LACLEDE STEEL CO.	DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER		FABRICATION CONT. NO W T C 221	SHEET NO. FP A3C



¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL MATERIAL	MK	PCS	SIZE	REF. DRWG
FLOOR TRUSSES	T27N	6	C32T27N - 57'-9"	ST227N
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	BT211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	5	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9" x 0135" x 13'-11 1/2"	ST 303
	B	8	9" x .0135" x 15'-2"	ST 303
	C	4	9" x .0135" x 13'-2 1/2"	ST 303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	2	1"¢ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 3 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	9	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-42	1-6-69
7-AB1-24	1-6-69
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

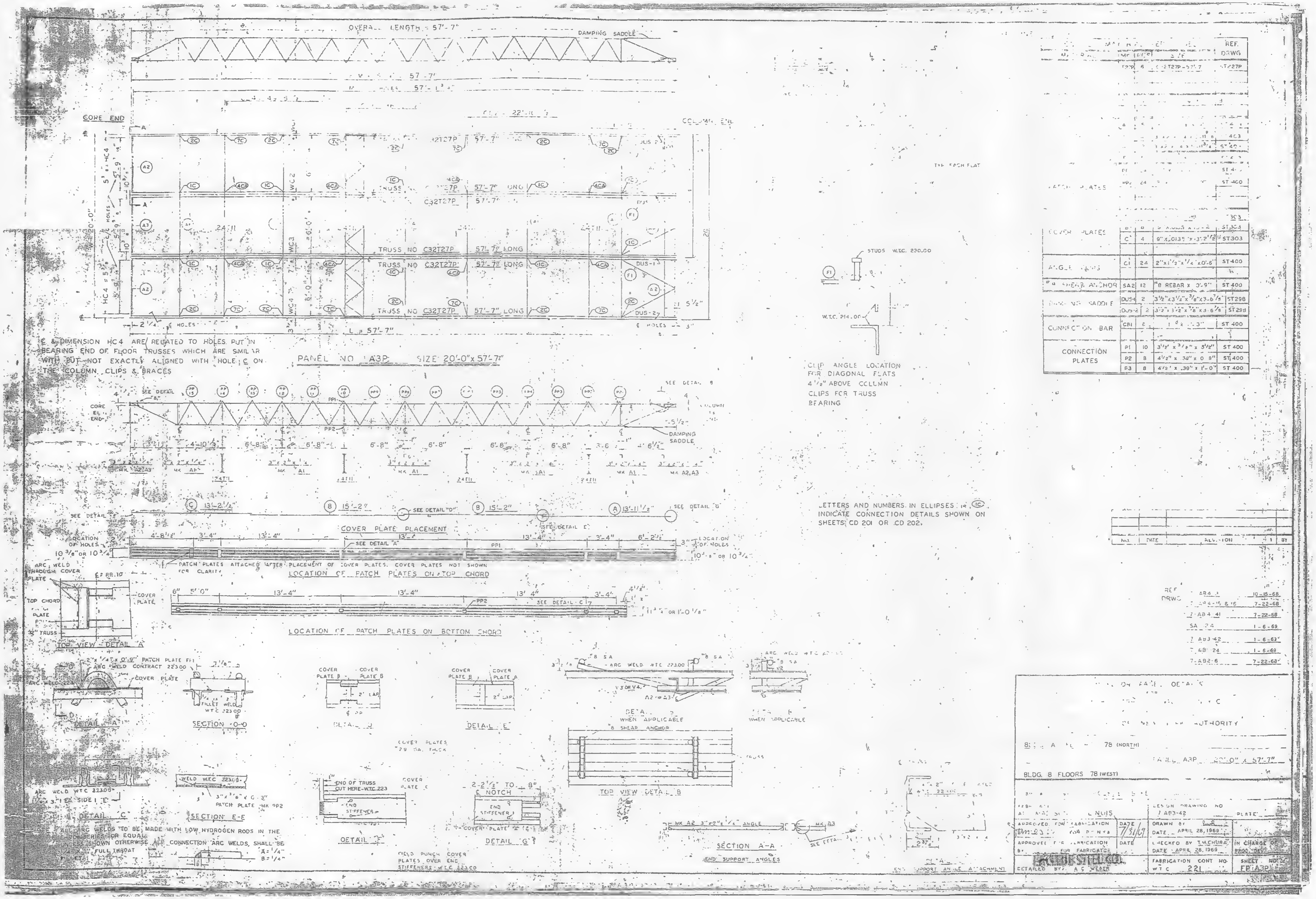
BLDG. B FLOORS 44 (EAST)

PANEL A3N - 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-42	PLATE
APPROVED FOR FABRICATION BY FOR P O N Y A	DATE 7/31/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY R.A.C. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO FP A3N

LACLEDE STEEL CO.



C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE 70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1/4" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

MATERIAL	MK	PCS	SIZE	REF. DRWG
	T27P	6	C32T27P - 57'-7	ST227P
			3 x 2 x 4 x 0'-11 5/8	ST403
			3 x 2 x 4 x 0'-11 3/4"	ST400
	PP1			ST400
PATCH PLATES	PP2	24		ST400
				ST303
COVER PLATES	B	6	9" x .0135 x 13'-2	ST303
	C	4	9" x .0135 x 13'-2 1/2"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1" x 0'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 5 1/2"	ST400
	P2	8	4 1/2" x .39" x 0'-9"	ST400
	P3	8	4 1/2" x .39" x 1'-0"	ST400

NO.	DATE	REVISION	BY

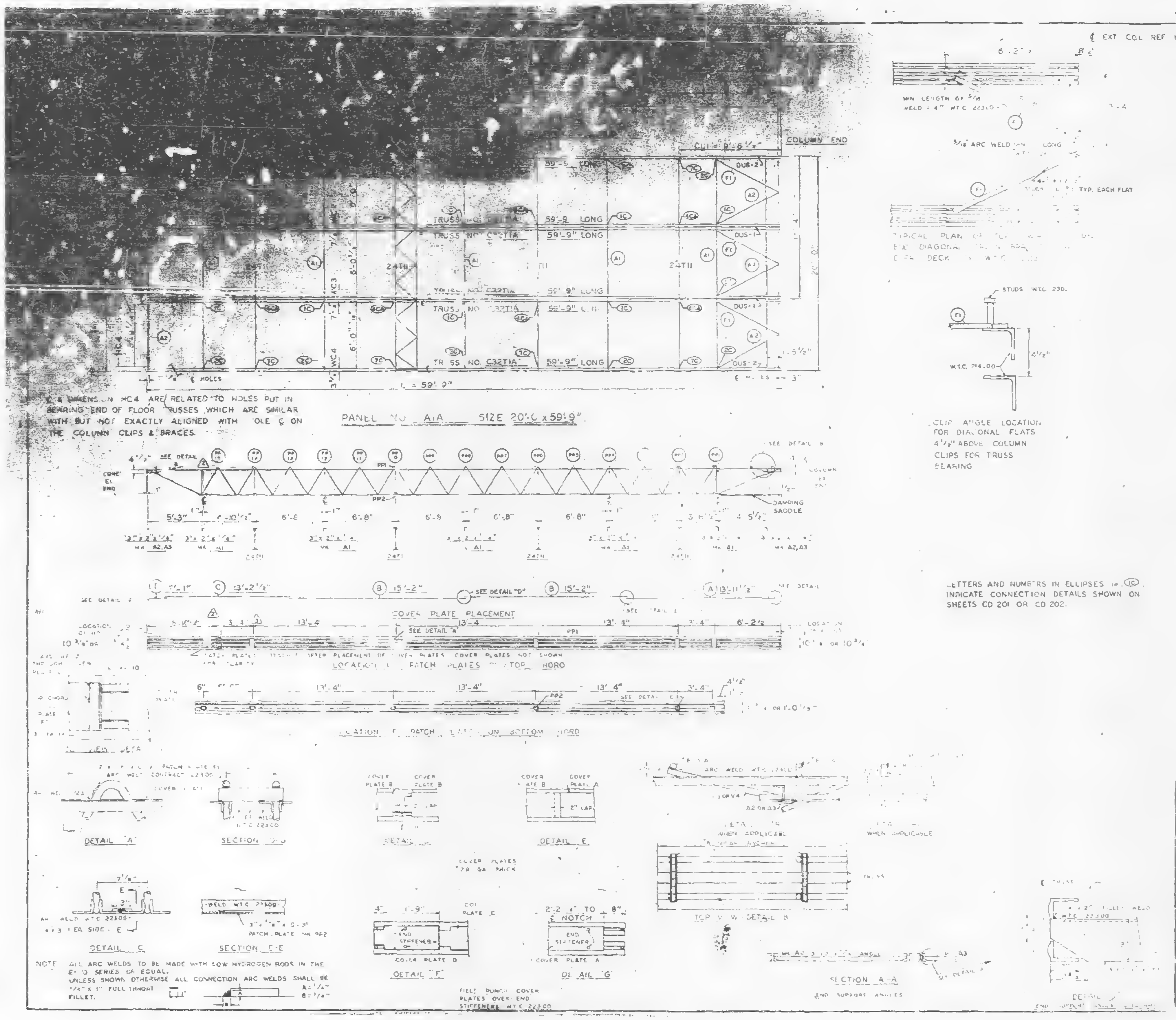
REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-24	1-6-69
7-AB3-42	1-6-69
7-AB1-24	1-6-69
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 78 (NORTH)
PANEL A3P 20'-0" x 57'-7"
BLDG. 8 FLOORS 78 (WEST)

FABRICATED AT		DESIGN DRAWING NO 7 AB3-42	PLATE
APPROVED FOR FABRICATION BY FOR P. of N.Y.A.	DATE 7/31/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEPT.
DETAILED BY A S WEBER		FABRICATION CONT NO. W.T.C 221	SHEET NO. FB A3P

PACIFIC STEEL CO.



HC4 DIMENSIONS IN HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
[illegible] ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST403
	A2	4	3"x2"x1/4"x 5'-11 3/8"	ST403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST403
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-9"	ST 400
COVER PLATES	A	2	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
[illegible]	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	2	[illegible] x [illegible]3"	ST 400
CONNECTION PLATES	P1	16	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0' 9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

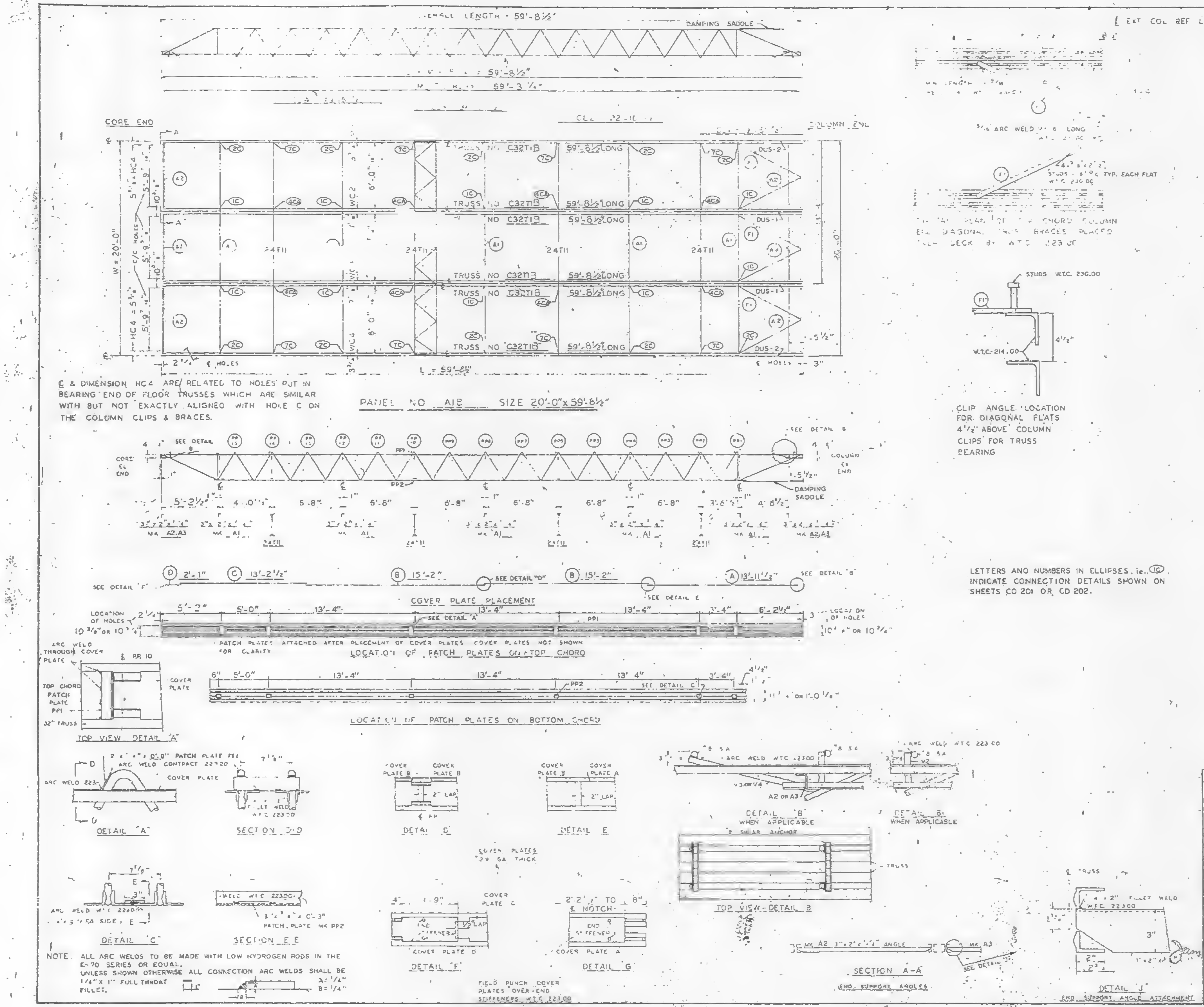
NO.	DATE	REVISION	BY
3	3-11-69	AS NOTED	G.C.C.
2	2-17-69	AS NOTED	G.C.
1	7-12-68	GENERAL	T.M.C.

AB4 3, 3.1 & 39 1-3-68
AB4-5 & 16 [illegible]
AB4 4! 1-3-68
SA [illegible] 10-20-67
AB2 [illegible] 1-3-68
AB1 2 2-15-68
AB2-6 2-15-68

[illegible] PANEL [illegible]
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH), 49-58, 60-66, 68, 69 (NORTH)
PANEL A1A - 20'-0" x 59'-9"

FABRICATED BY LACLEDE [illegible] COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3 4-[illegible]-68 PLATE
APPROVED FOR FABRICATION [illegible] FOR PONYA DATE 3/24/69
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.A.P. DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEGES
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP A1A



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET. A = ¼" B = ¼"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1B	6	C32T16 - 59'-8½"	ST201B
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	B12-1
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x9'-11"	ST4[illegible]
	A2	4	3"x2"x¼"x5'-11 9/16"	ST403
	A3	2	3"x2"x¼"x5'-11¾"	ST4[illegible]
DIAGONAL FLATS	F1	6	1½"x⅝"x5'-8"	ST 402
PATCH PLATES	PP1	24	2"x¼"x0'-9"	ST 400
	PP2	24	3"x⅜"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11½"	ST303
	B	B	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½"x⅜"x6½"	ST 400
	P2	8	4½"x.39"x0'-9"	ST 400
	P3	8	4½"x.39"x1'-0"	ST 400

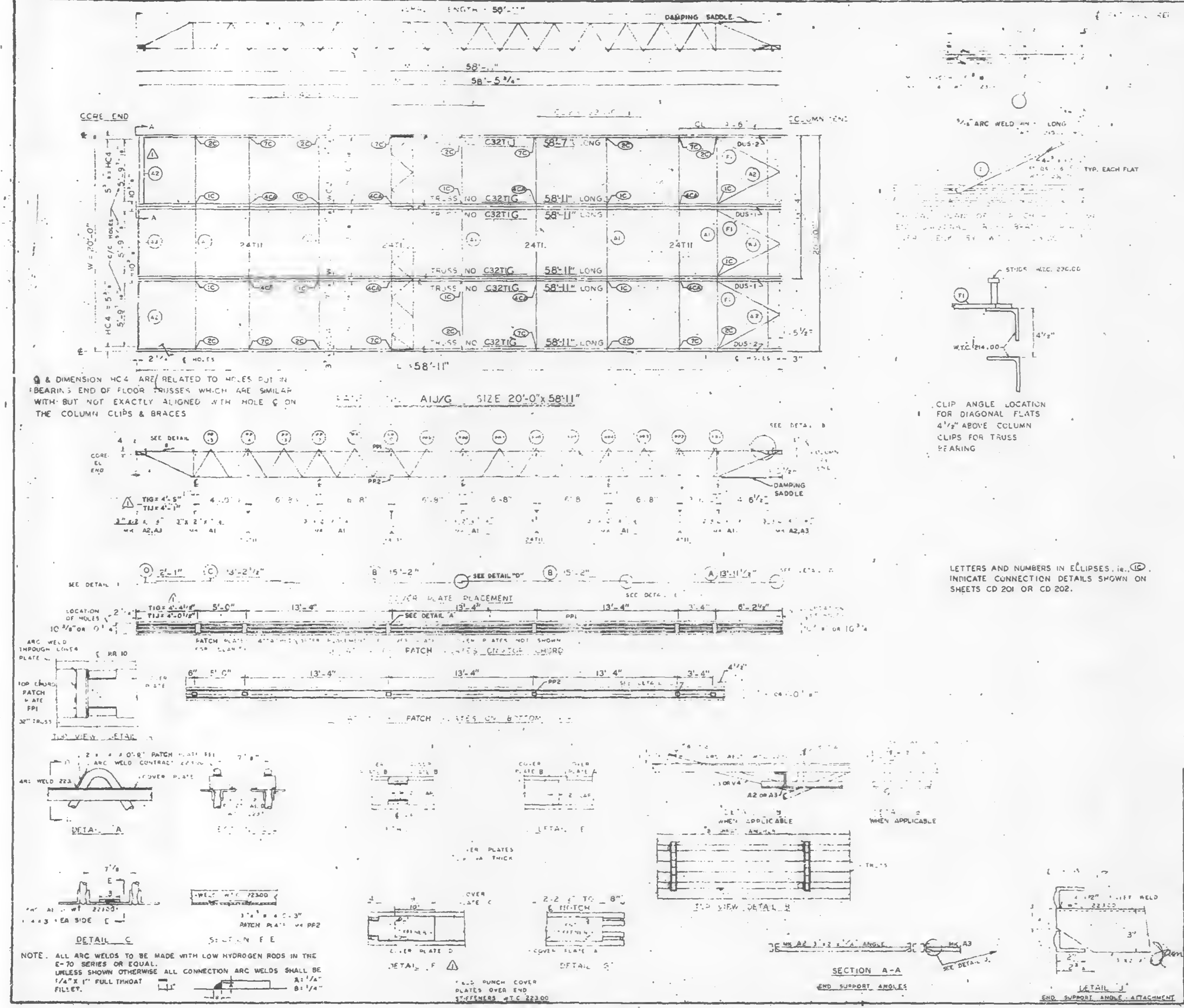
⚠1	10-21-68	AS NOTED	GDC.
NO.	DATE	REVISION	BY

REF DRWG
7-AB4-3, 3.1 & 39 1-3-68
AB4-15 & 16 3-6-68
7-AB4-41 1-3-68
SA 124 10-20-67
7-AB3-2 1-3-68
7-AB1-2 2-15-68
7-AB2-6 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 83-91, 93-106 (NORTH) ⚠1
PANEL A13 20'-0" x 59'-8½"

FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 4-1-68	PLATE
APPROVED FOR FABRICATION James White FOR PONYA	DATE 10/24/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A C WEBER		FABRICATION CONT. NO. W T C 221	SHEET NO FP A13



A & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A: 1/4"
B: 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK		SIZE	
[illegible] TRUSSES	TIG	[illegible]	C32TIG - 58'-11"	ST201G
	TIJ	1	C32TIJ - 58'-7"	ST201J
[illegible]	T11	4	24T11 [illegible]	[illegible]
3" [illegible] ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 3/4"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x .0135"x 13'-11 1/2"	ST303
	B	8	9"x .0135"x 15'-2"	ST303
	C	4	9"x .0135"x 13'-2 1/2"	ST303
	D	4	9"x .0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x 1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

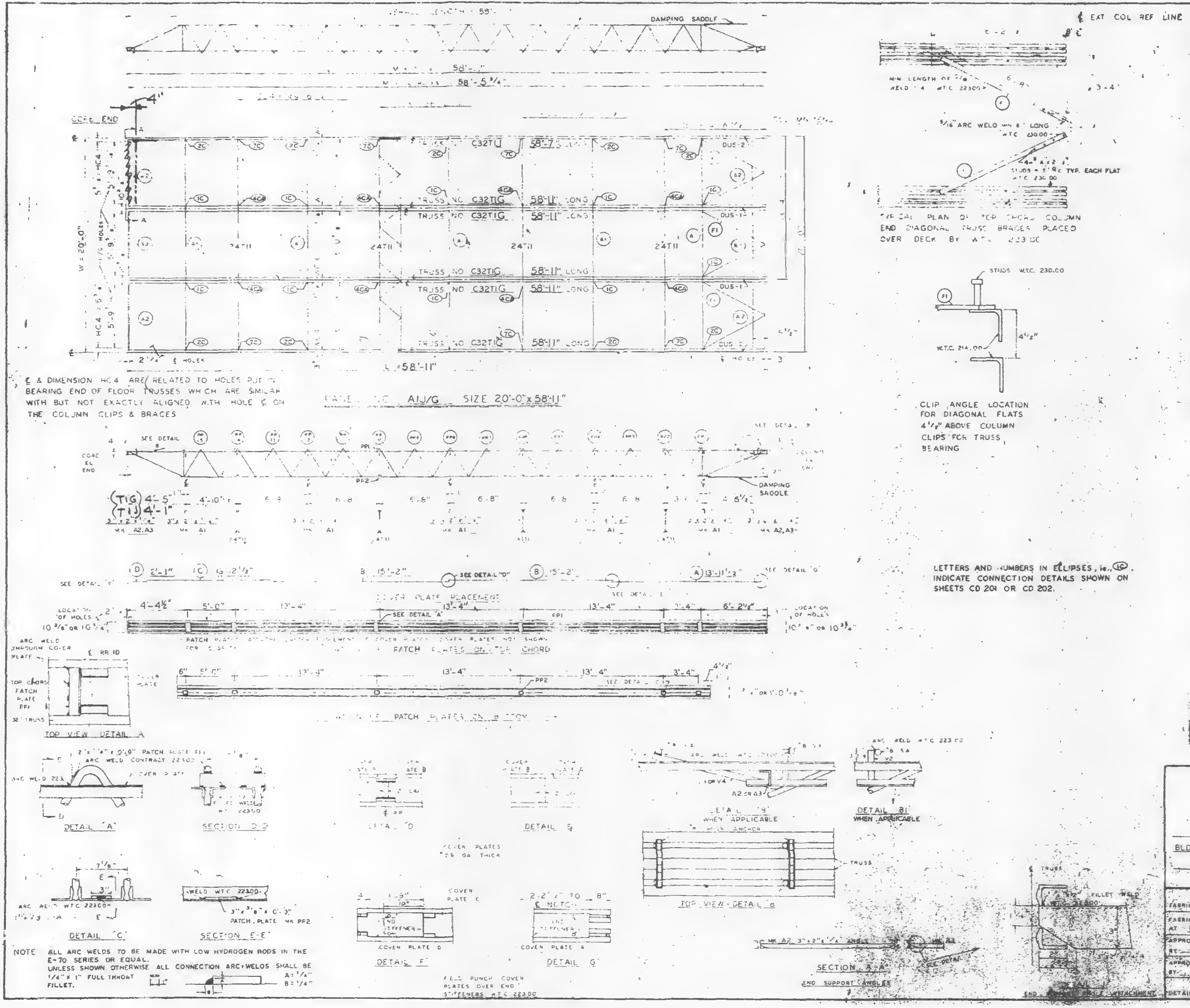
NO.	DATE	REVISION	BY
1	10-21-68	AS NOTED	G.D.C.

[illegible] 3,1 & 39	1 68
[illegible]	3 6 68
444 41	1 3 68
[illegible]	20 67
483 2	1 68
481 2	2 15 68
482 1	2 15 68

BLDG [illegible] 40 (N)

PANEL AIJ/G 20'-0" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-483-3 4 68 PLATE
APPROVED FOR FABRICATION James L. White FOR PONYA DATE 10/24/68
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER
FABRICATION CONT NO WTC 221
SHEET NO FP AIJ/G



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC-WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIG	5	C32TIG - 58'-11"	ST201G
	TIJ	5	C32TIJ - 58'-7"	ST201J
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .38" x 0'-9"	ST 400
	P3	8	4 1/2" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

SKILLING HELLE CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ REVISE
☐ REJECTED
10/18/68. SK

REF DRWG		
	7-AB4-3, 3.1 & 39	1-3-68
	7-AB4-15 & 16	5-6-68
	7 AB4 41	1-3-68
	SA 124	10-20-67
	7-AB3-2	1-3-68
	7-AB1-2	2-15-68
	7-AB2-6	2-15-68

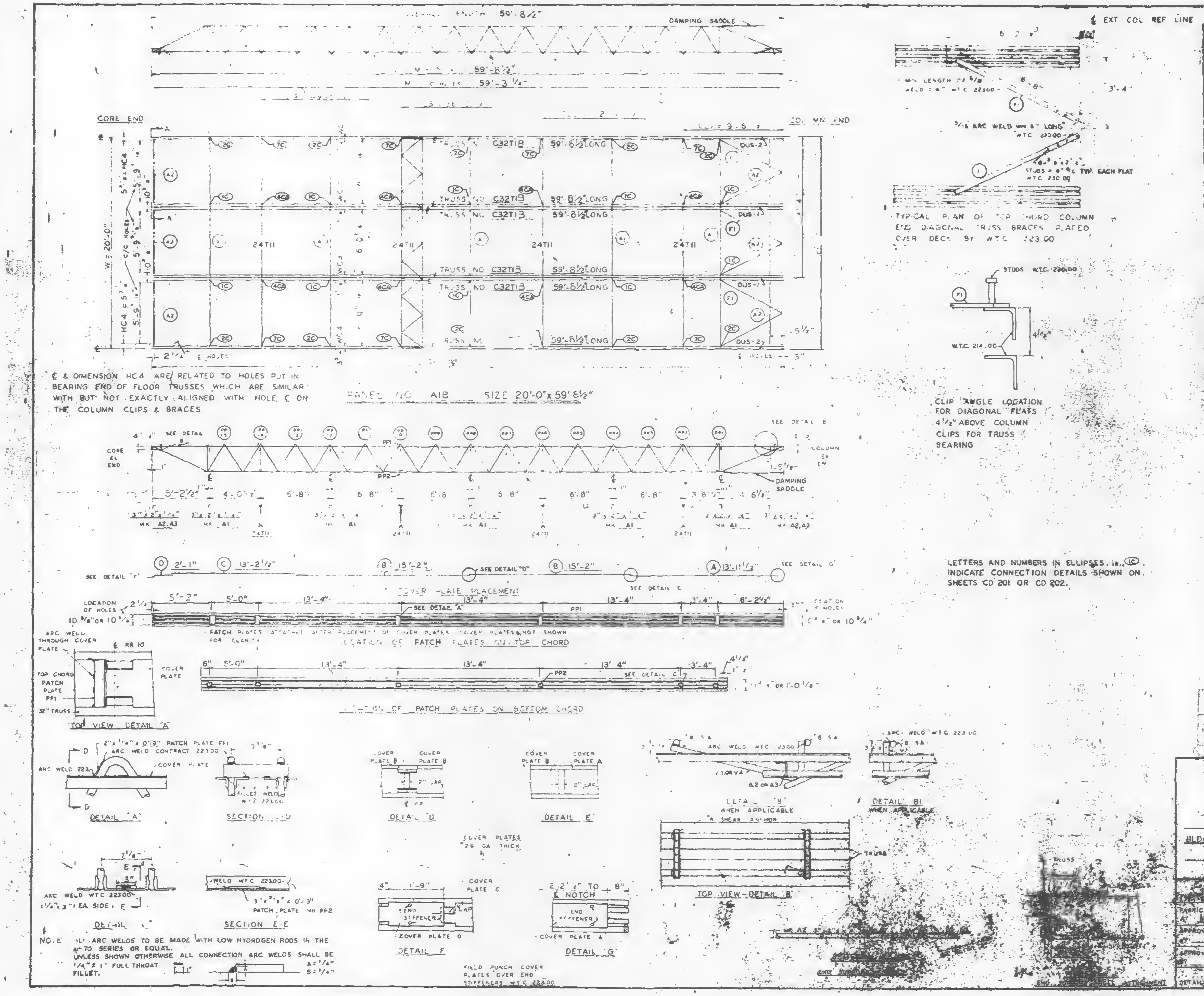
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 40 (N)

PANEL AIJ/G - 20'-0" x 58'-11"

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHUBA DATE OCT. 11, 1968	IN CHARGE OF PROD. DIV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER	FABRICATION CONT. NO W.T.C. 221	SHEET NO FP AIJ/G



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1B	6	C32T1B - 59'-8 1/2"	ST2018
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	8	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 8'-11 3/4"	ST 403
	A3	2	3"x2"x1/4"x 8'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-6"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2"	ST 303
	B	8	9" x .0135" x 15'-2"	ST 303
	C	4	9" x .0135" x 13'-2 1/2"	ST 303
	D	4	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	8	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/4" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-8"	ST 400
	P3	8	4 1/2" x .30" x 15'-0"	ST 400

NO.	DATE	REVISION	BY

REF ORWG

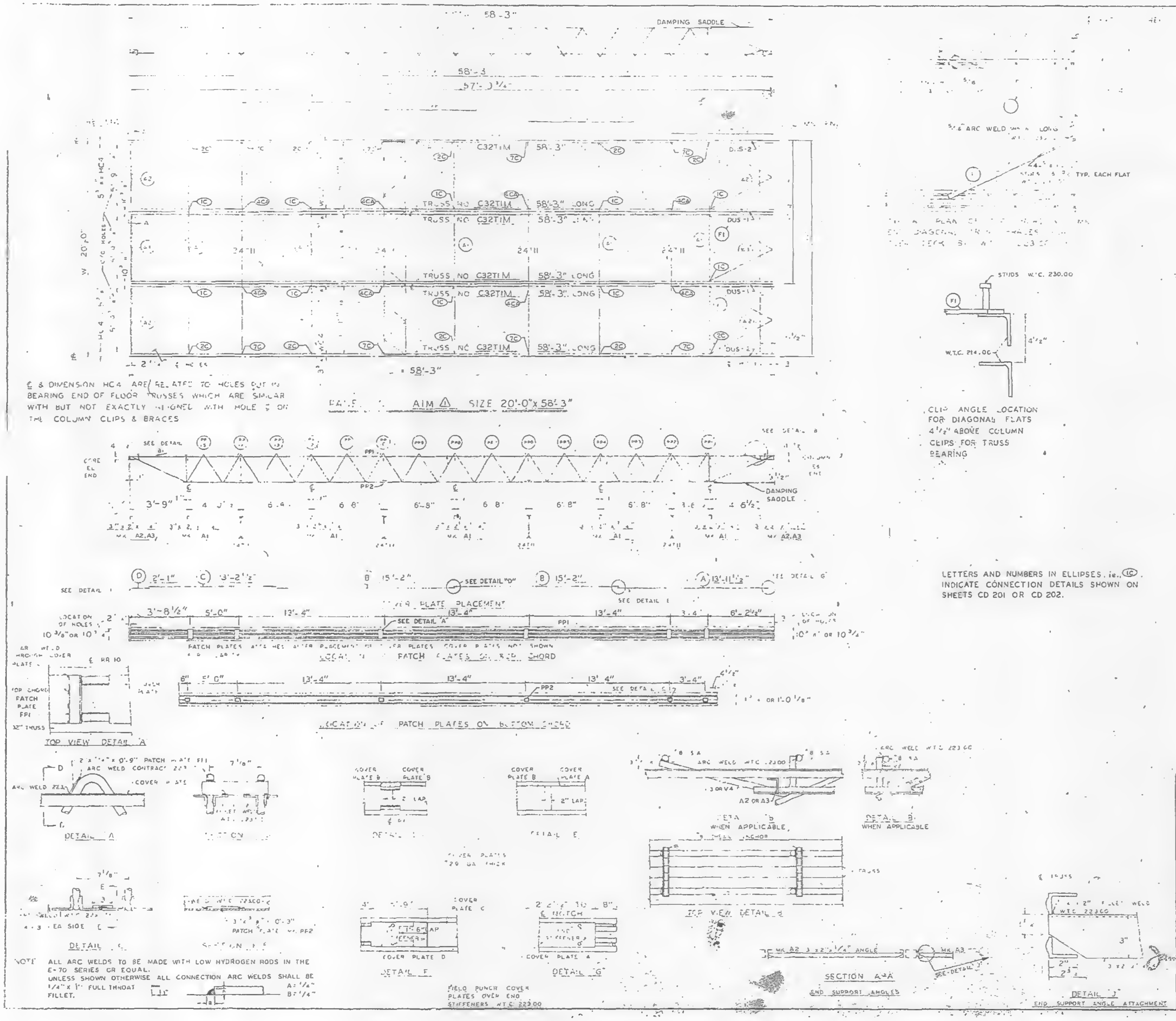
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	8-5-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

SKILLING, HELLE
CHRISTIANSEN, ROBERTSON
Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 10/15/68 SK

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS ~~81-82~~ 83-91, 93-106 North
PANEL A1B - 20'-0" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-2 4-1-68 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY DATE FEB 24 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT. 11, 1968
IN CHARGE OF
LACLEDE STEEL CO.
DETAILED BY
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP A1B



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

MATERIAL	MK	PC	SIZE	REF. DRWG.
[illegible]	TIM	6	C32TIM - 58'-3"	ST200
[illegible]	[illegible]	4	24'-1 9	[illegible]
[illegible]	A1	5	3"x2"x1/4"x 9'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠	10-21-68	AS NOTED	G.D.C.

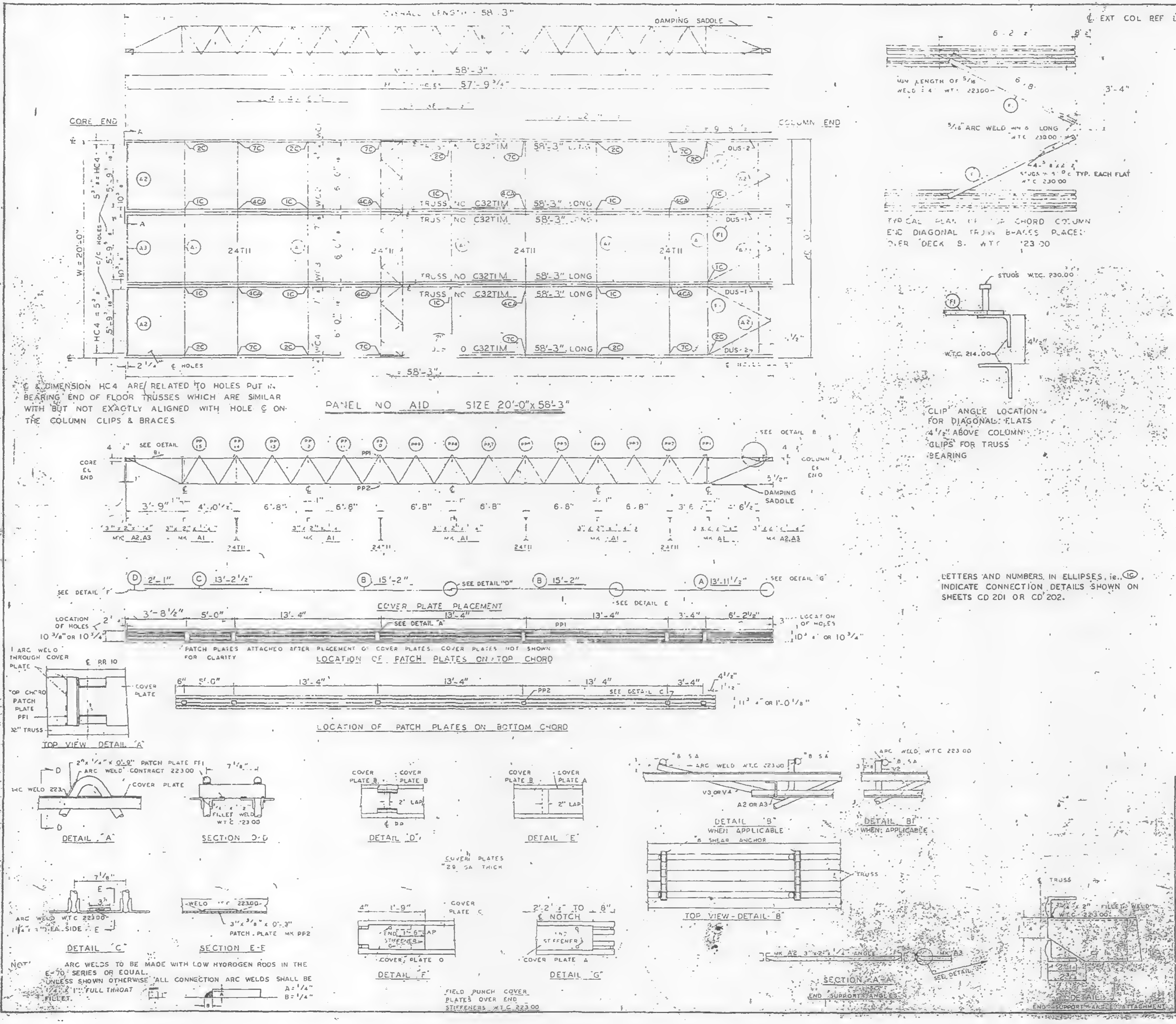
REF DRWG
7-AB4-3,31 & 39 1-3-68
7-AB4-5 & 16 5-6-68
7-AB4-41 1-3-68
SA-24 4-20-67
7-AB3-2 1-3-68
7-AB1-2 2-15-68
7-AB2-6 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 72-73 (N)
PANEL AIM - 20'-0" x 58'-3"
⚠

FABRICATION BY - LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION James W. White FOR PONYA	DATE 10/24/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP AIM



C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

PANEL NO AID SIZE 20'-0" x 58'-3"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIM	6	C32TIM - 58'-3"	ST201M
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	B72II
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4" x 0'-9"	ST 400
	PP2	24	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

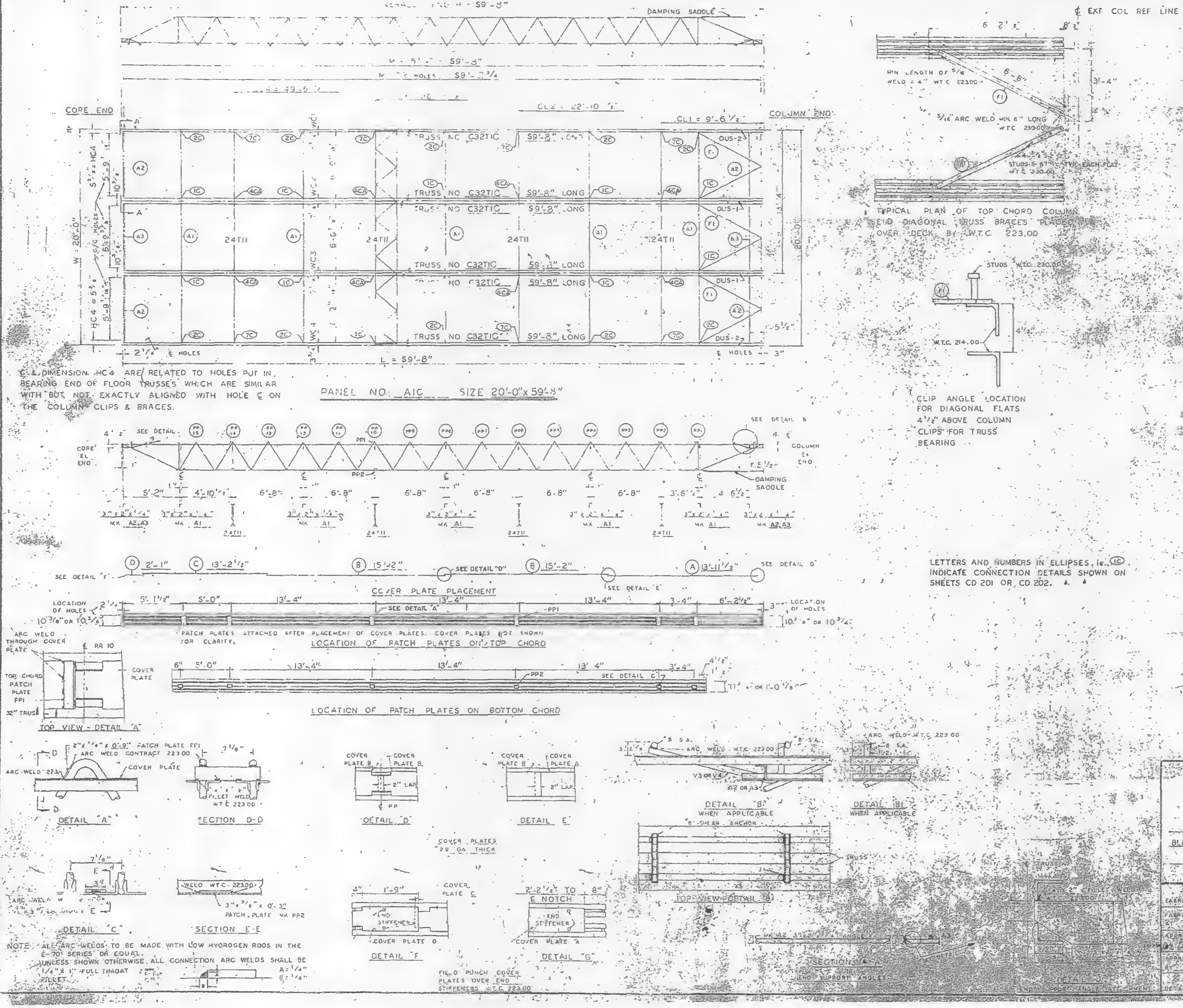
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON
Structural & Civil Engineers
APPROVED
X APPROVED AS NOTED
10/15/68 SK

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL A1M - 20'-0" x 58'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. C. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO FP A1M



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. A1C SIZE 20'-0" x 59'-8"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE, ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1C	6	C32T1A - 59'-4"	ST201
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST21
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x6 1/2"	ST400
	P2	8	4 1/2"x.39"x0'-9"	ST400
	P3	8	4 1/2"x.39"x1'-0"	ST400

NO.	DATE	REVISION	BY

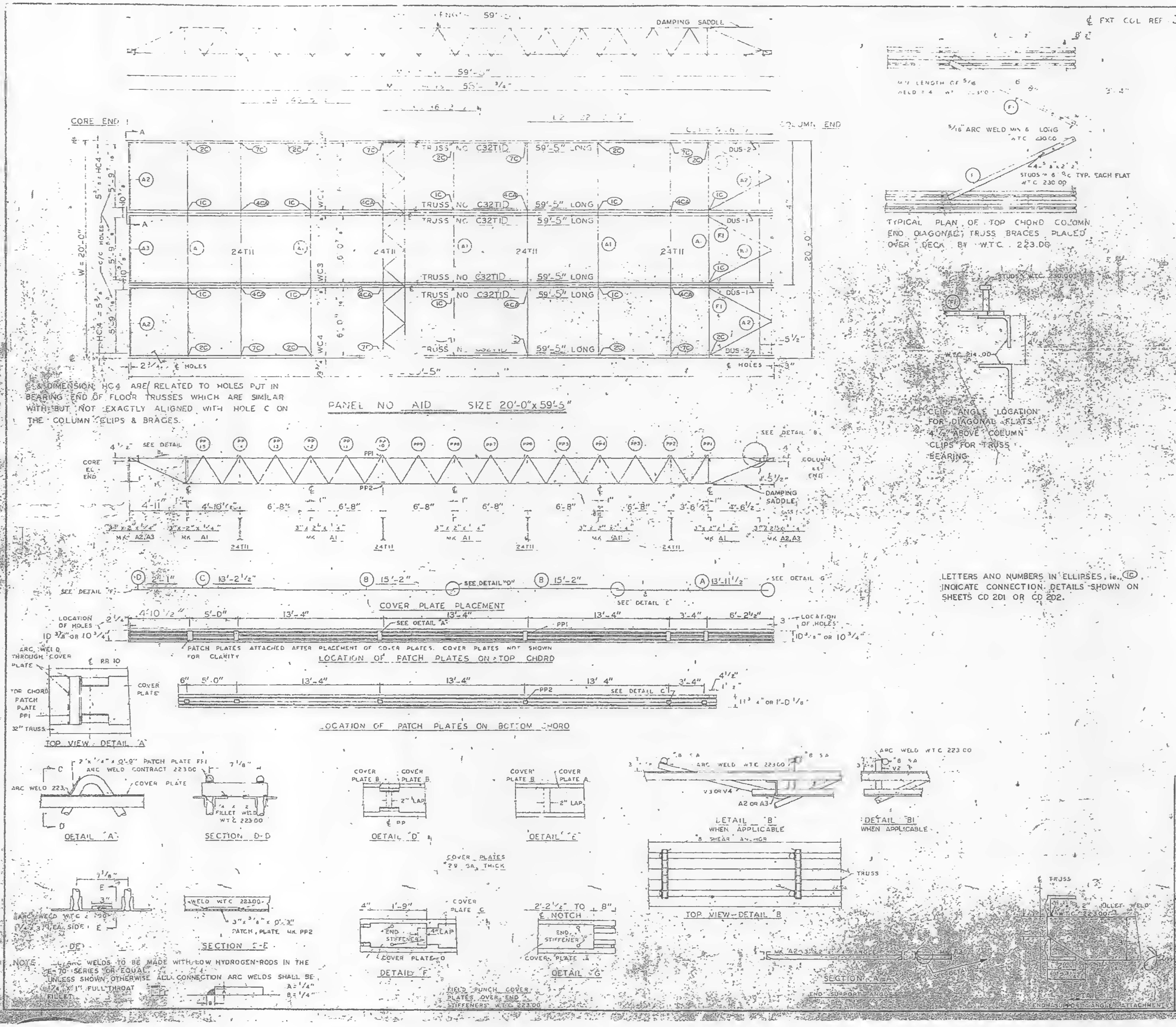
REF DRWG	
7-A84-3, 3.1 & 39	1-3-68
7-A84-15 & 16	5-6-68
7-A94-41	1-3-68
SA-124	10-20-67
7-A83-2	1-3-68
7-A81-2	2-15-68
7-A82-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]

PANEL A1C - 20'-0" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-3 4-1-68 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 10/11/68
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT 11, 1968
IN CHARGE OF PROD. DIV.
LACLEDE STEEL CO
DETAILED BY A.C. WEBER
FABRICATOR CONT. NO. W.T.C. 221
SHEET NO. FP A1C


DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T1D 59'-5" LONG
24T11
W = 20'-0"
DUS-2
DUS-1
& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.
PANEL NO A1D SIZE 20'-0"x 59'-5"
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW - DETAIL B
SECTION E-E
3"x 3/8" x 0'-3" PATCH PLATE MK. PP2
DETAIL F
DETAIL G
SECTION A-A
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.
NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	6	C32T1D - 59'-5"	ST201D
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG

7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA 124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

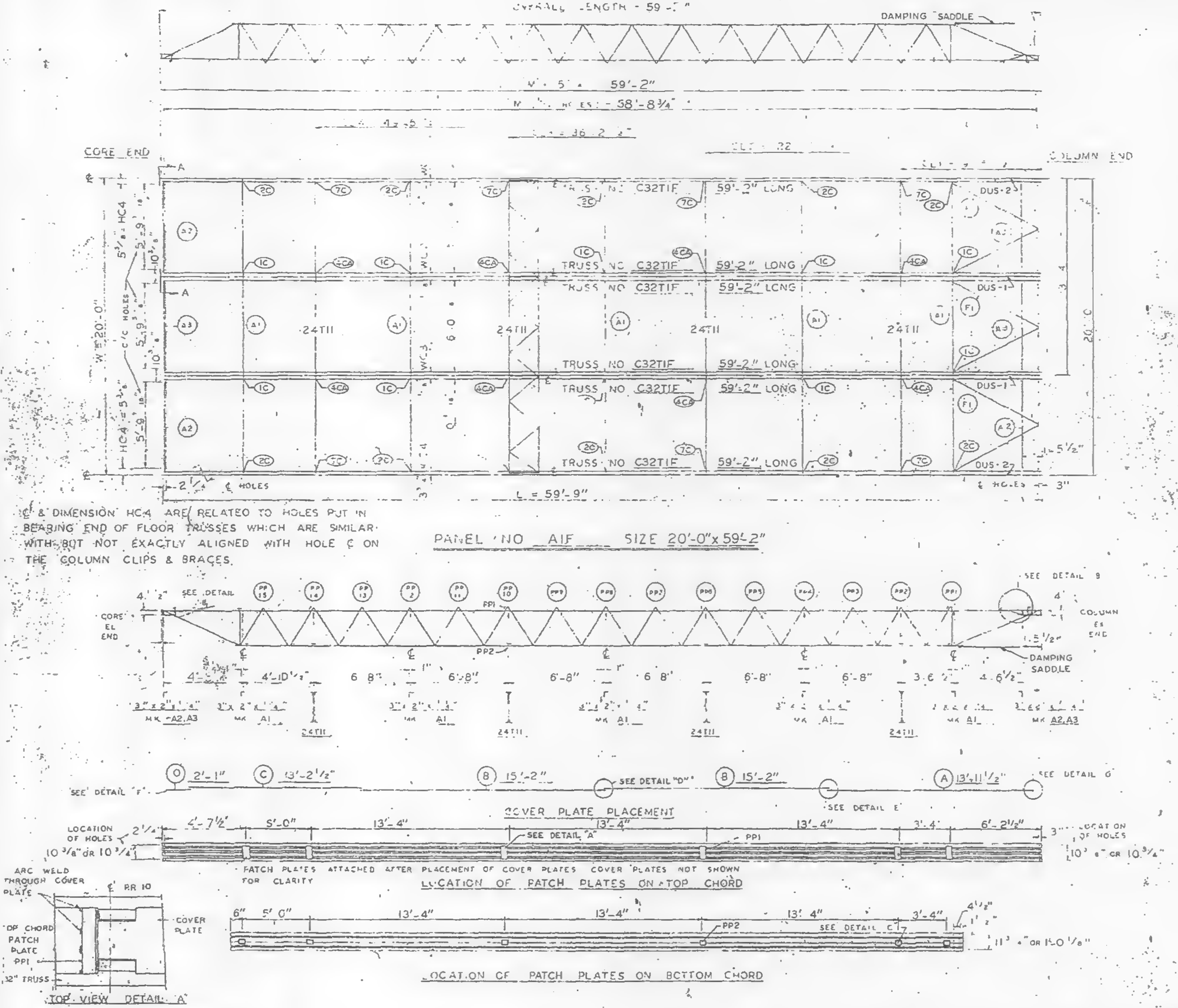
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81 82 (N)

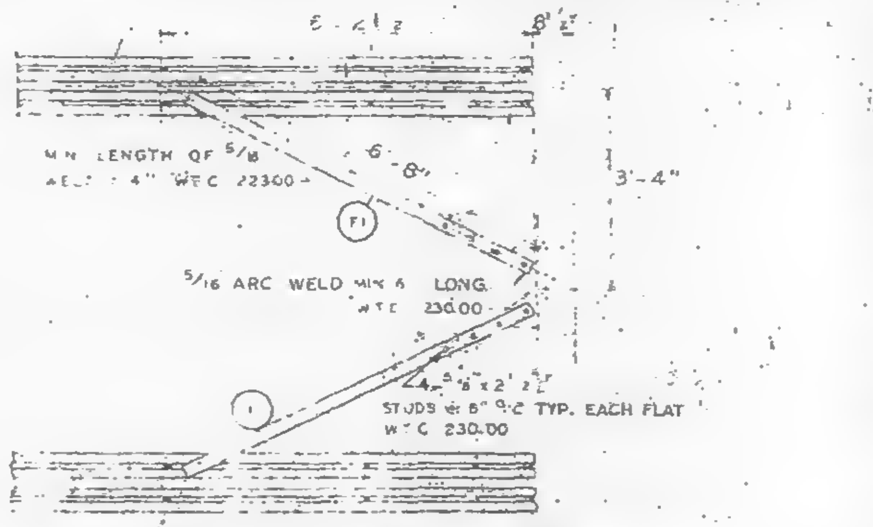
PANEL A1D - 20'-0" x 59'-5"

FABRICATION BY LACLEDE STEEL COMPANY

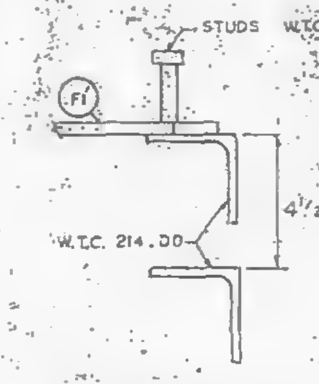
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-3 1-24-68 PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 10/18/68	DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968 · IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. C. WEBER	FABRICATION CONT. NO. W.T.C. 221 · SHEET NO. FP A1D



¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES.


¢ EXT COL REF LINE
6'-4 1/2"
8 1/2"
MIN LENGTH OF 5/8 WELD 4" WTC 22300
6'-8"
3'-4"
F1
5/16 ARC WELD MIN 6 LONG WTC 230.00
1/4 x 5/8 x 2'-2"
STUDS @ 6" O.C TYP. EACH FLAT WTC 230.00

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00



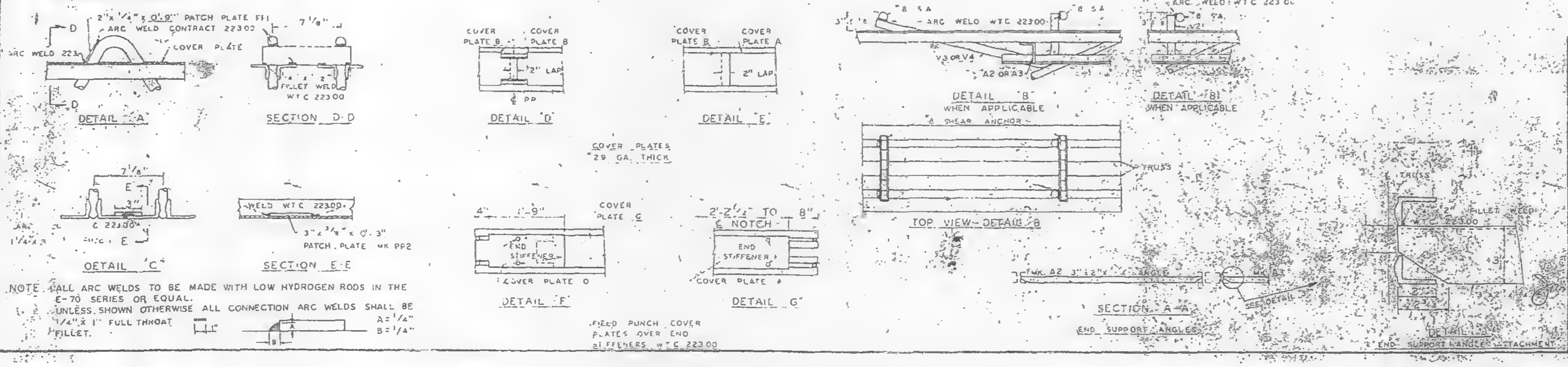
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1F	6	C32T1F - 59'-2"	ST201F
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	BT211
3"x2"x1/4 ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4	ST 401
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	3-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68



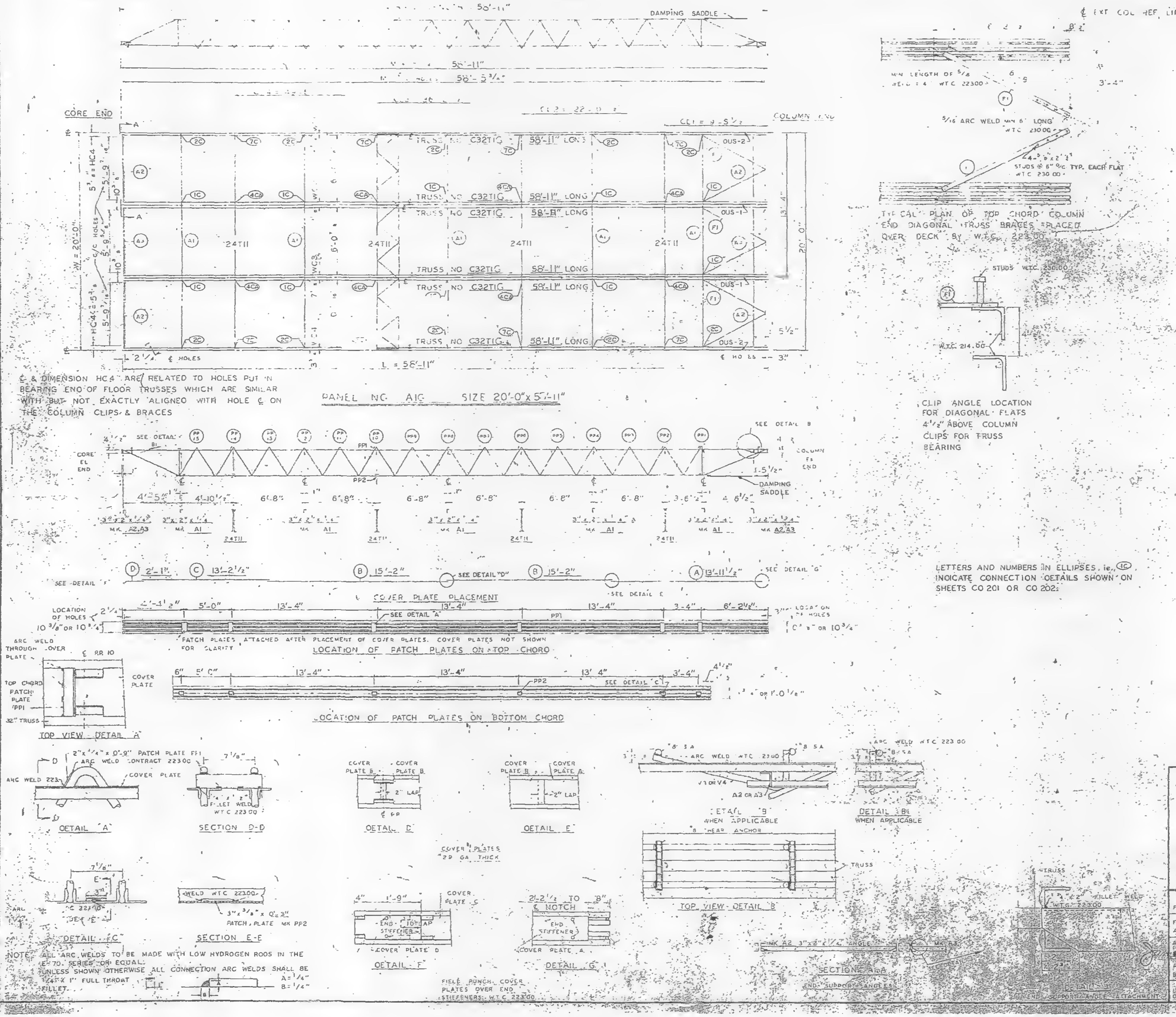
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY.

BLDG. A FLOORS 47-48(N&S) 70-71(N)
PANEL AIF · 20'-0" x 59'-2"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-3 4-1-68 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. — DATE 10/18/68	DRAWN BY DATE FEB 24 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY Z. CHURA DATE OCT 11 1968 — IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER	FABRICATION CONT. NO W.T.C 221 — SHEET NO FP AIF


DAMPING SADDLE
℄ EXT COL REF LINE
CORE END
COLUMN END
TRUSS NO C32TIG 58'-11" LONG
24T11
OUS-1
OUS-2
L = 58'-11"
℄ HOLES
PANEL NO AIG SIZE 20'-0"x 58'-11"
SEE DETAIL B
SEE DETAIL B1
CORE EL END
COLUMN EL END
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL "B"
COVER PLATES 22 GA. THICK
DETAIL "C"
SECTION E-E
3"x3/8"x 0'-3" PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
5/16 ARC WELD MIN 6" LONG W.T.C. 230.00
4-5/8 x 2 1/2 STUDS @ 6" O/C TYP. EACH FLAT W.T.C. 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (IC), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CO 201 OR CO 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIG	6	C32T16 - 58'-11"	ST2016
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	B1211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

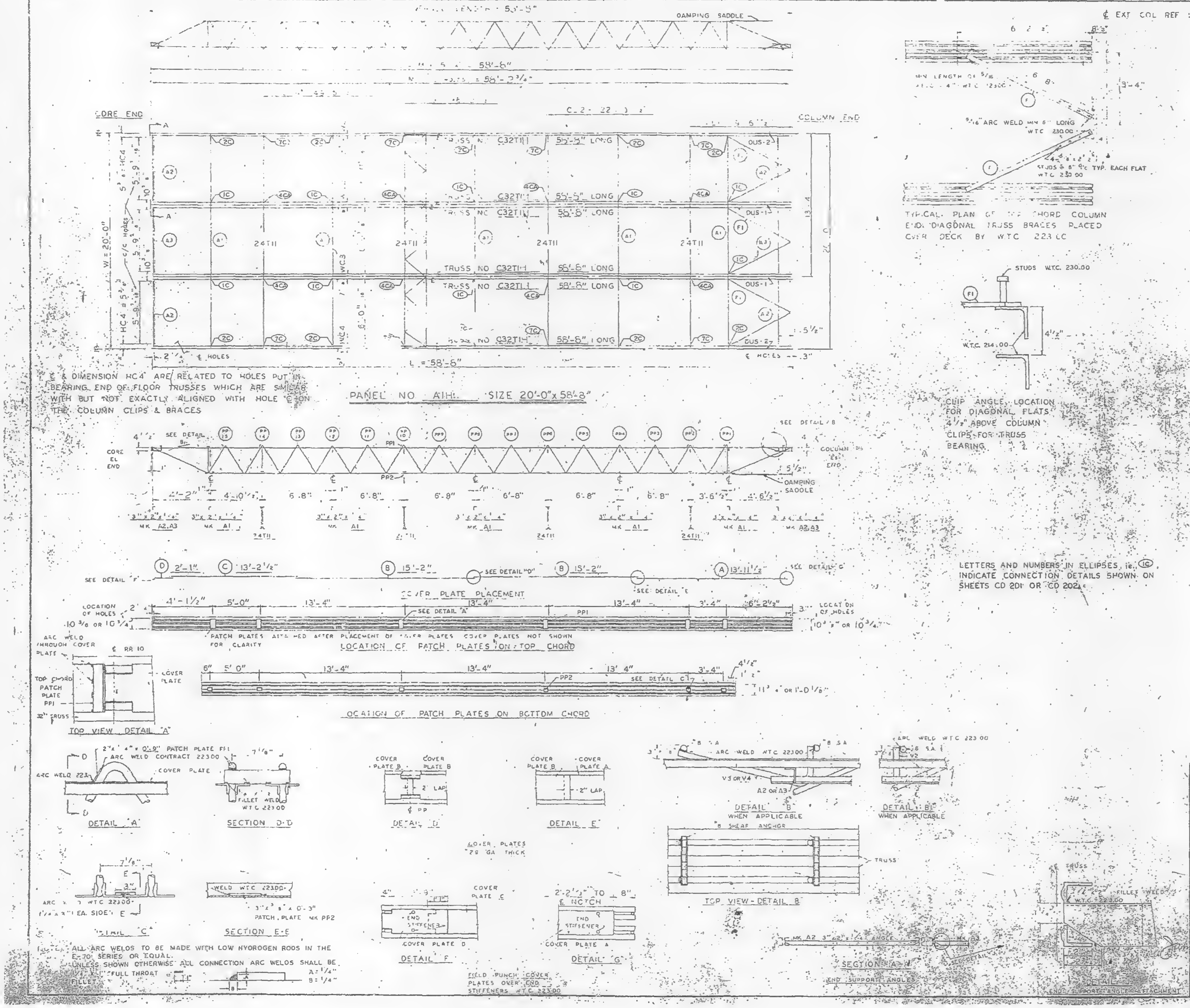
REF DRWG
7-AB4-3, 3.1 & 39 1-3-68
7-AB4-15 & 16 5-6-68
7-AB4-41 1-3-68
SA-124 10-20-67
7-AB3-2 1-3-68
7-AB1-2 2-15-68
7-AB2-6 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39(N)
69 (NORTH) PANEL AIG - 20'-0" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE 10/18/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. [illegible]
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO W.T.C. 221	SHEET NO. FP AIG



¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., ⓘⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202

NOTES: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	6	C32T1H - 5[illegible]	ST201
BRIDGING TRUSSES	T11	4	24T11 - 19'-11[illegible]	ST2[illegible]
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x19'-11[illegible]	ST403
	A2	4	3"x2"x¼"x5'-11 1/16	ST403
	A3	2	3"x2"x¼"x5'-11¾"	ST403
DIAGONAL FLATS	F1	6	½"x⅝"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x¼"x0'-5"	ST400
	PP2	24	3"x⅜"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11½"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"ø x 1'-3"	ST400
CONNECTION PLATES	P1	10	3½"x⅜"x6½"	ST400
	P2	8	4½"x.39"x0'-9"	ST400
	P3	8	4½"x.39"x1'-0"	ST400

	DATE	REVISION	BY

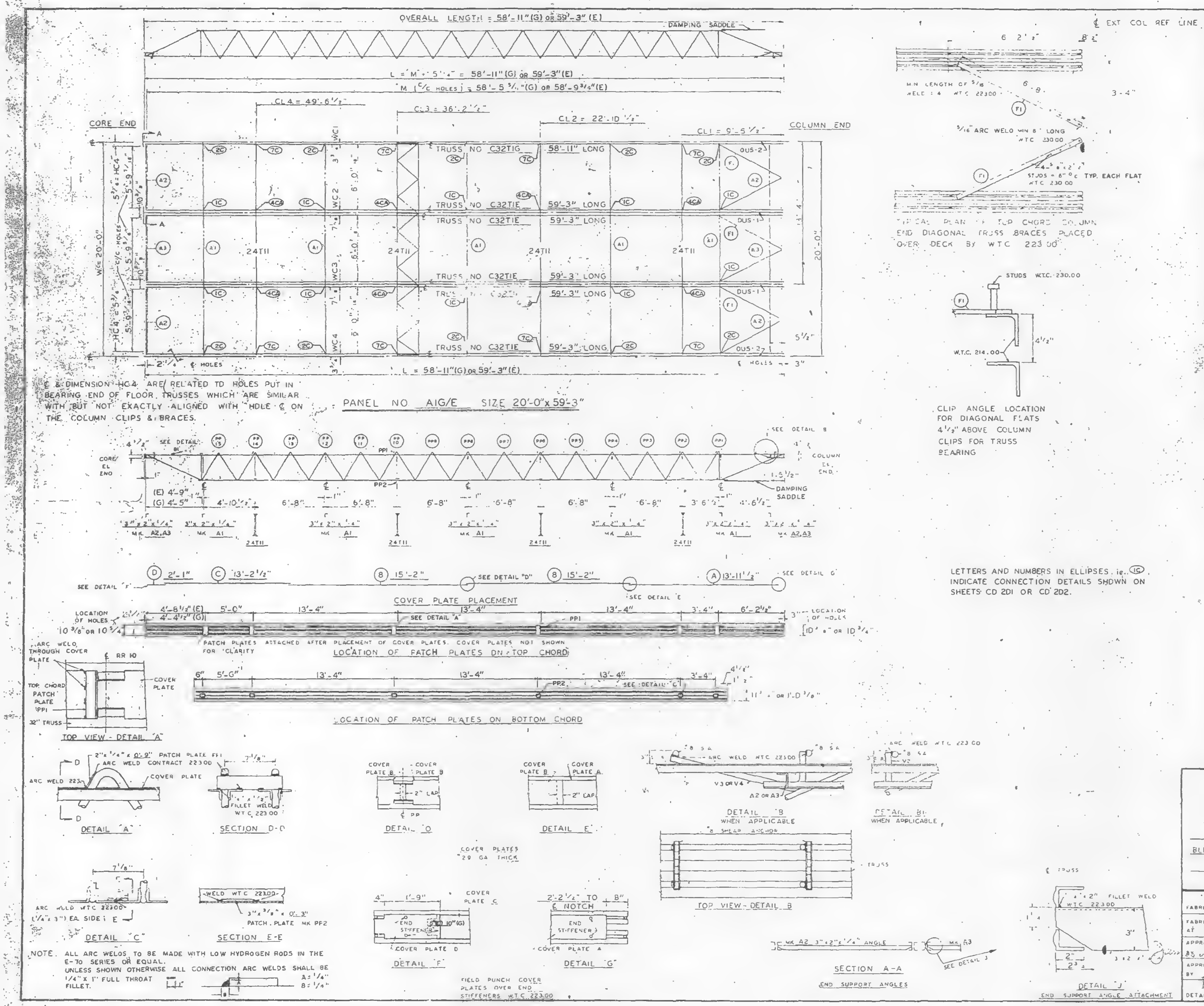
REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-5	2-15-58

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 79-80 (N)
PANEL A1H - 20'-0" x 58'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3 4-1-68	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 10/18/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. [illegible]
DETAILED BY A.C. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET FP-A1H


OVERALL LENGTH = 58'-11" (G) OR 59'-3" (E)
DAMPING SADDLE
L = "M" + 5 1/4" = 58'-11" (G) OR 59'-3" (E)
"M" (C/C HOLES) = 58'-5 3/4" (G) OR 58'-9 3/4" (E)
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-5 1/2"
CORE END
COLUMN END
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIE 59'-3" LONG
24TII
WC1
WC2
WC3
WC4
HC4
20'-0"
DUS-1
DUS-2
¢ HOLES
L = 58'-11" (G) OR 59'-3" (E)
PANEL NO AIG/E SIZE 20'-0" x 59'-3"
SEE DETAIL B
COLUMN EL END
CORE/ EL END
DAMPING SADDLE
3"x2"x1/4" MK A2, A3
3"x2"x1/4" MK A1
24TII
SEE DETAIL "F"
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL G
COVER PLATE PLACEMENT
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE PP1 ARC WELD CONTRACT 223.00
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW - DETAIL B
#8 SHEAR ANCHOR
COVER PLATES 28 GA THICK
ARC WELD WTC 22300 (1/4" x 3") EA SIDE
DETAIL "C"
WELD WTC 22300
3"x3/8"x0'-3" PATCH PLATE MK PP2
SECTION E-E
DETAIL "F"
DETAIL "G"
END STIFFENER
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3"x2"x1/4" ANGLE
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
¢ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD 1 4 WTC 22300
5/16" ARC WELD MIN 8" LONG WTC 230.00
STUDS = 6" OC TYP. EACH FLAT WTC 230.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W T C 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	5	C32TIE - 59'-3"	ST201E
	TIG	1	C32TIG - 58'-11"	ST201G
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	BT211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x5/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x5/8"x8 1/2"	ST400
	P2	8	4 1/2"x.39"x0'-9"	ST400
	P3	8	4 1/2"x.39"x1'-0"	ST400

NO.	DATE	REVISION	BY
△	7-12-68	GENERAL	T.M.C.

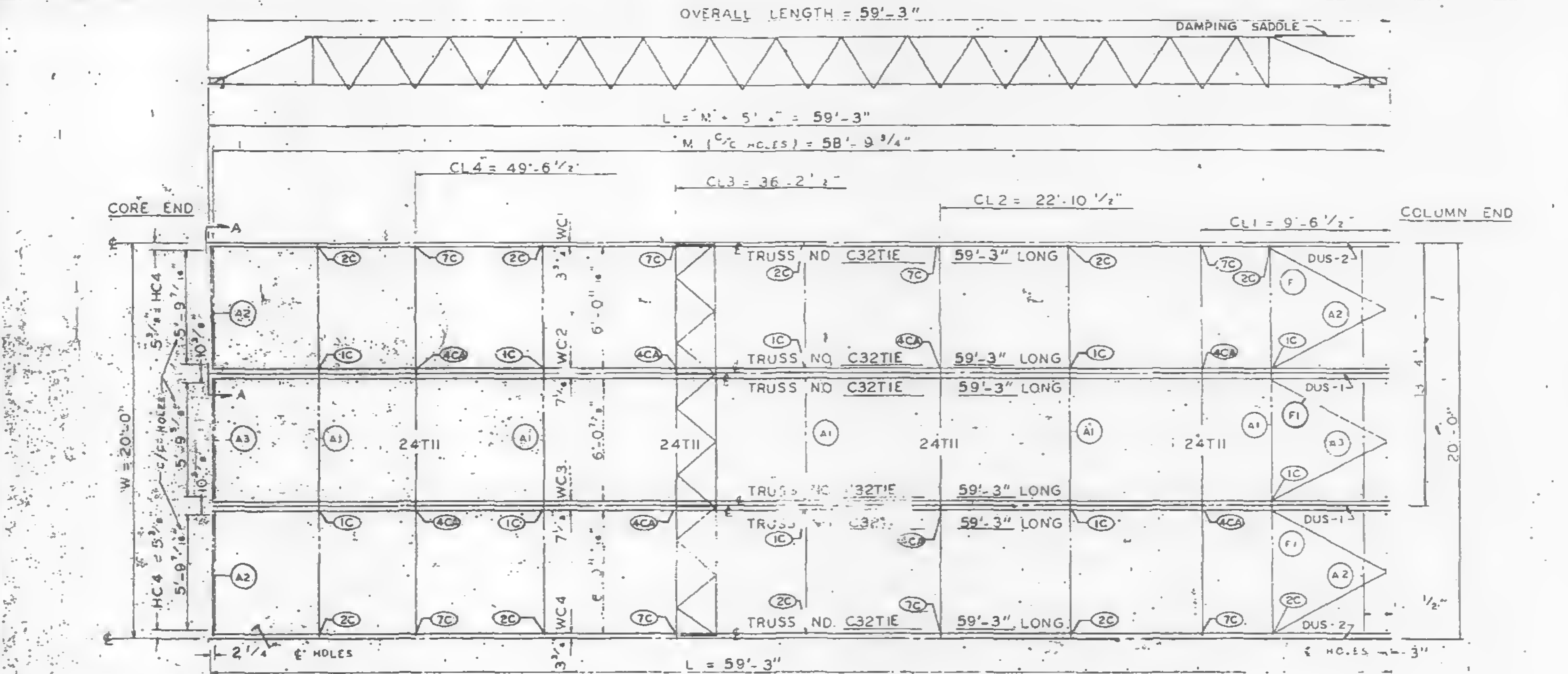
REF DRWG	
7-A84-3, 3.1 & 39	1-3-68
7-A84-15 & 16	5-6-68
7-A84-41	1-3-68
SA-124	10-20-67
7-A83-2	1-3-68
7-A81-2	2-15-68
7-A82-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (NORTH)

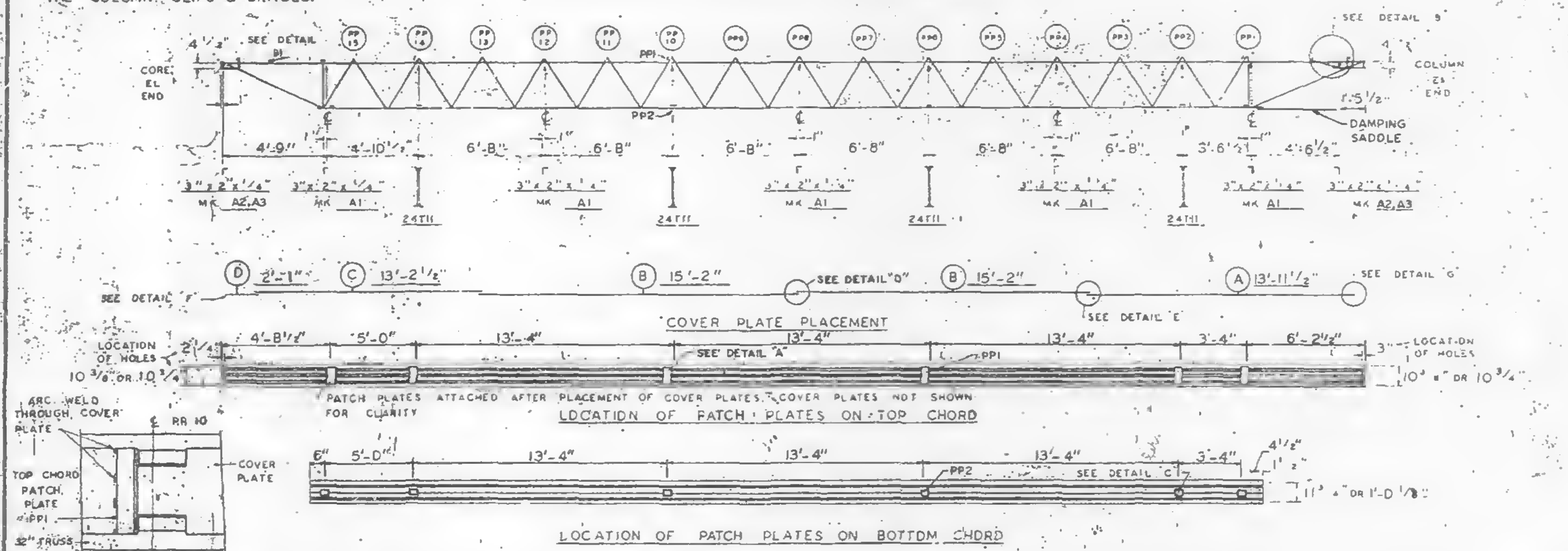
PANEL AIG/E- 20'-0" x 59'-3"

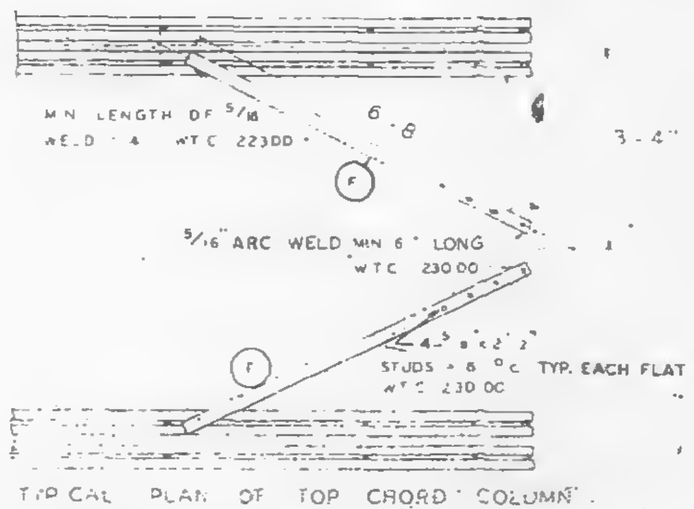
FABRICATION BY · LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-4 4-1-68 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 8/16/68
DRAWN BY DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL
DETAILED BY A C WEBER
FABRICATION CONT NO. W T C 201
SHEET NO FP AIG/E



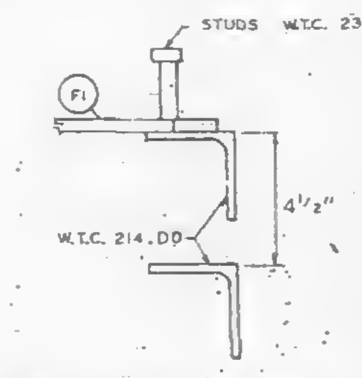
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO AIE SIZE 20'-0" x 59'-3"




℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD 4 WTC 22300
5/16" ARC WELD MIN 6" LONG WTC 23000
STUDS 6 O.C. TYP. EACH FLAT WTC 23000
F

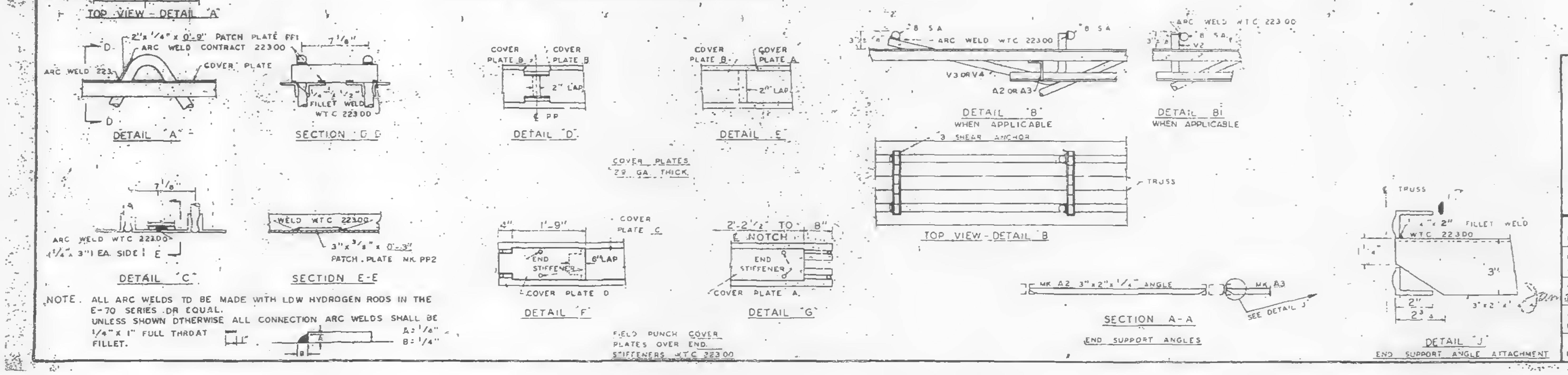
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223 00



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. 1C INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	BT211
3"x2"x1/4 ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16	ST403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400



NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	7-12-68	GENERAL	T.M.C.

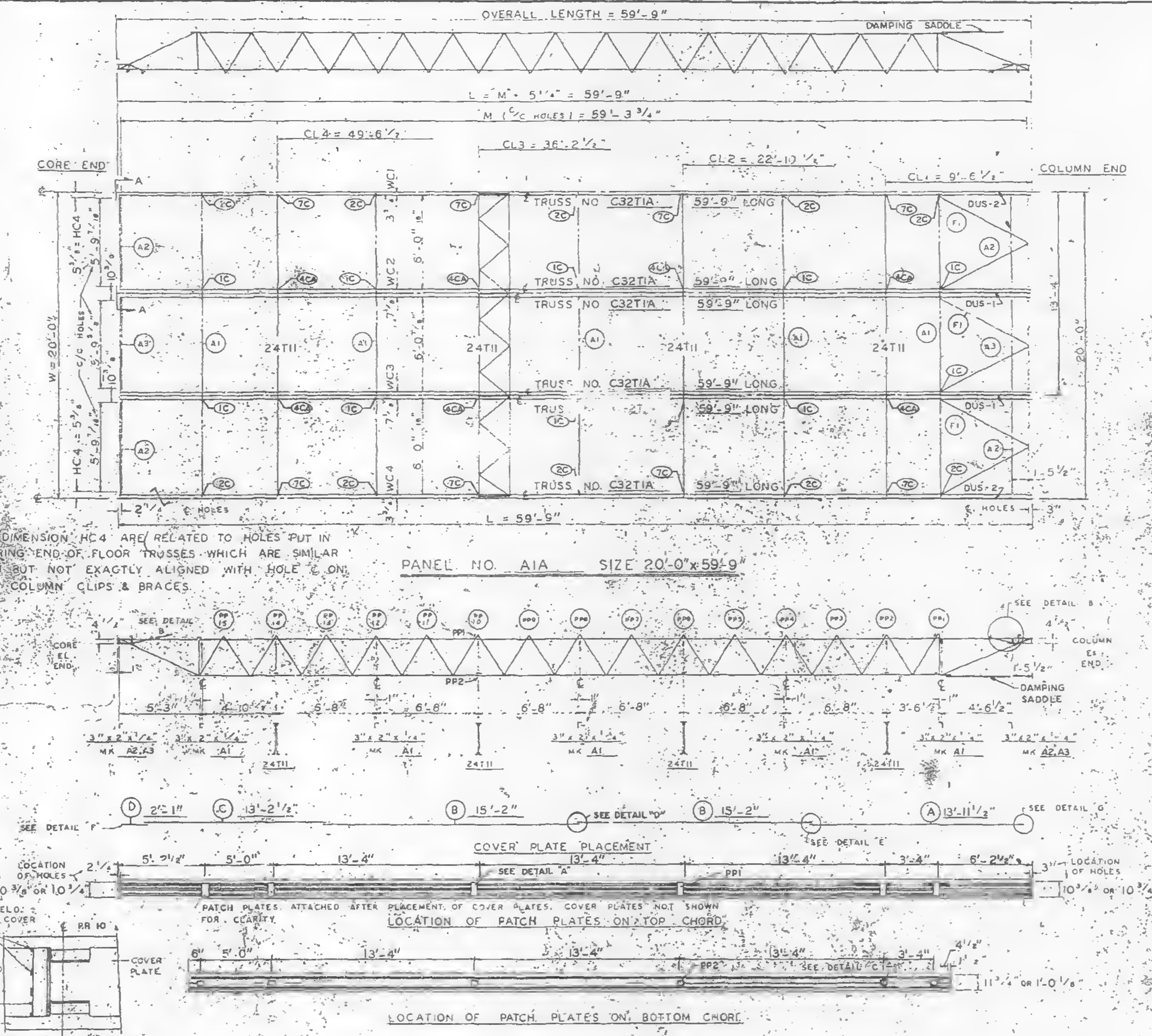
REF DRWG	
7-AB4-3,3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-11 (SOUTH)
PANEL AIE - 20'-0" x 59'-3"

FABRICATION BY · LACLEDE STEEL COMPANY

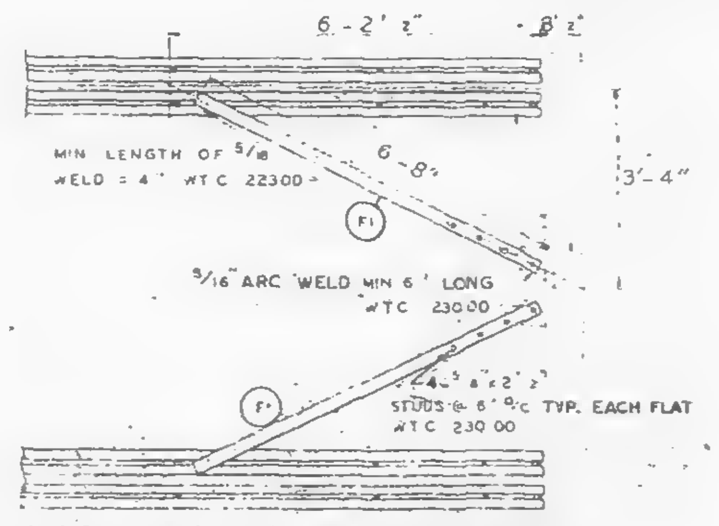
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB3-3 4-1-68	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.D.N.Y.A. — DATE 8/16/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER	FABRICATION CONT. NO. WTC 221	SHEET NO FP AIE



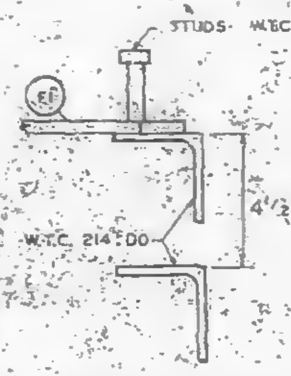
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. A1A SIZE 20'-0"x 59'-9"

℄ EXT COL REF LINE


6'-2 1/2"
8 1/2"
3'-4"
MIN LENGTH OF 5/8 WELD = 4" W.T.C. 22300
5/16 ARC WELD MIN 6" LONG W.T.C. 23000
4-5/8"x2 1/2" STUDS @ 6" O/C TYP. EACH FLAT W.T.C. 230.00
F1

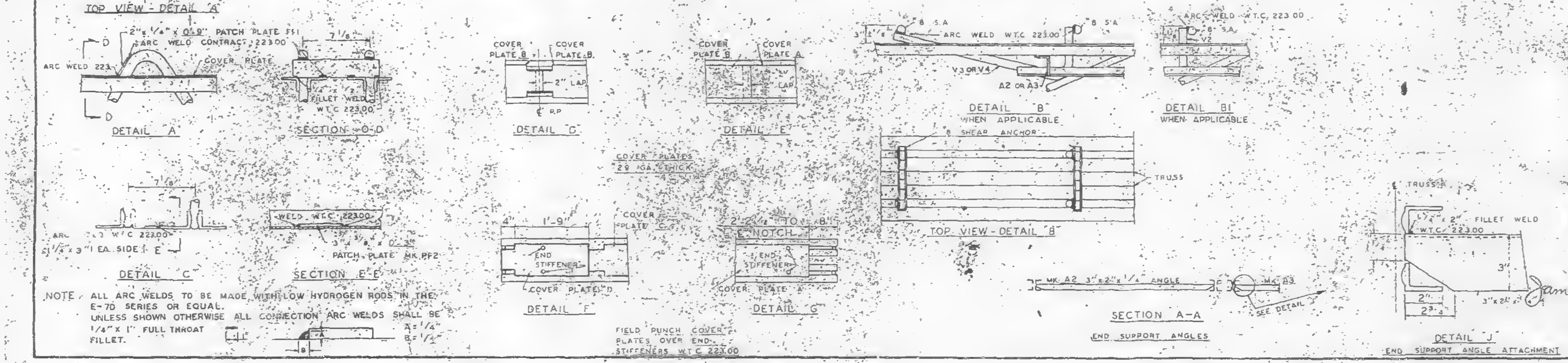
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION. DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400



NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/2"

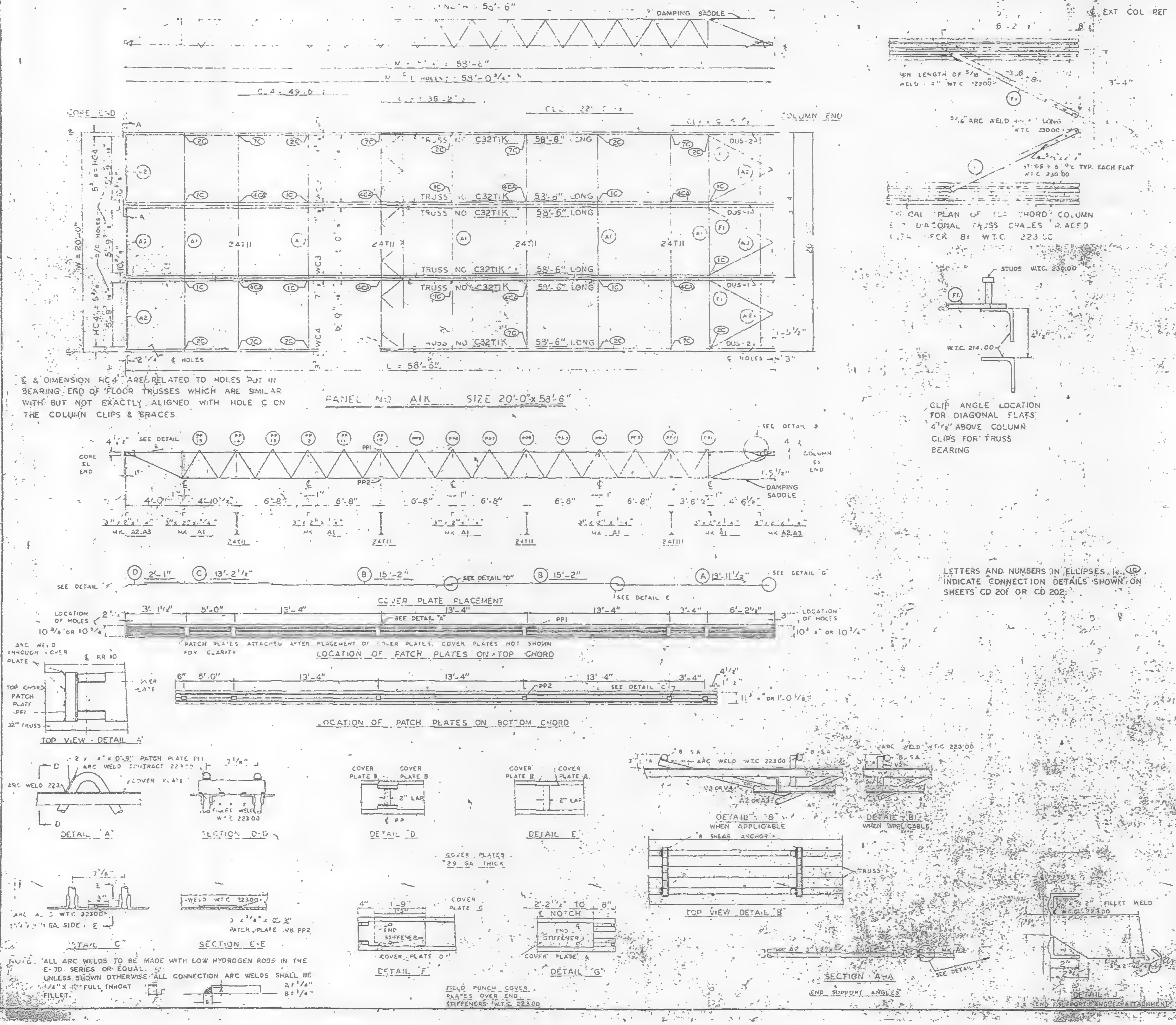
NO.	DATE	REVISION	BY
⚠	7-12-68	GENERAL	T.M.C.

REF DRWG
7-A84-3,3.1 & 39 1-3-68
7-A84-15 & 16 5-6-68
7-A84-41 1-3-68
SA-124 10-20-67
7-A93-2 1-3-68
7-A81-2 2-15-68
7-A82-6 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH); 45-58, 60-66, 68, 69 (NORTH)
PANEL A1A - 20'-0" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-3 4-1-68 PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 8/16/68
DRAWN BY L.A. DATE FEB 24, 1968
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP A1A



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN SEAT DIAGONAL TRUSS CHASES PLACED

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	6	C32TIK - 5[illegible]	ST201
BRIDGING TRUSSES	T11	4	24T11 [illegible]	[illegible]
3"x2"x¼" ANGLE	A1	5	3"x2"x¼" x 19'-11"	ST403
	A2	4	3"x2"x¼"x 5'-11 9/16"	ST403
	A3	2	3"x2"x¼"x 5'-11¾"	ST403
DIAGONAL FLATS	F1	6	1½"x⅝"x 6'-8"	ST402
PATCH PLATES	PP1	24	2"x¼"x 0'-9"	ST400
	PP2	24	3"x⅜"x 0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x 13'-11½"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2½"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST400
CONNECTION PLATES	P1	10	3½" x ⅜" x 6½"	ST400
	P2	8	4½" x .39" x 0'-9"	ST400
	P3	8	4½" x .39" x 1'-0"	ST400

RECEIVED

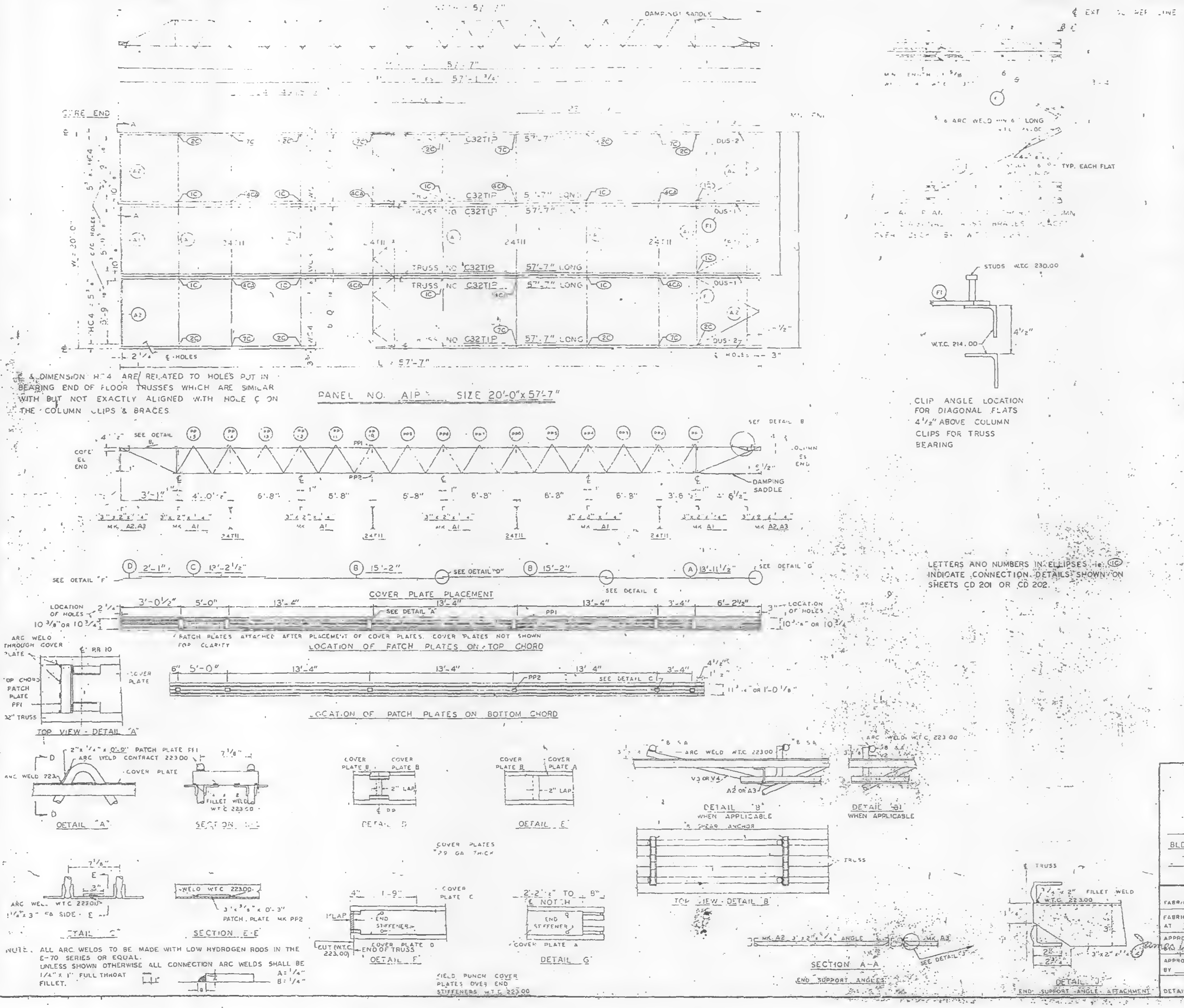
NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB4-2	2-15-68
7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]
PANEL AIK - 20'-0" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE
APPROVED FOR FABRICATION James W. [illegible] FOR P.O.N.Y.A DATE 10/18/68
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT 1, 1968
IN CHARGE OF PROD. [illegible]
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W T C 221
SHEET NO FP AIK



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

LETTERS AND NUMBERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1-1	6	C32T1P - 57'-7"	ST201P
BRACING TRUSSES	T11	4	24T11 - 19'	B 211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x9'-11"	[illegible]
	A2	4	3"x2"x1/4"x5'-11 9/16"	[illegible]
	A3	2	3"x2"x1/4"x5'-11 3/4"	[illegible]
DIAGONAL FLATS	F1	5	2"x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4" x 0'-9"	ST 400
	PP2	24	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x .0135"x13'-11 1/2"	ST303
	B	8	9"x .0135"x 15'-2"	ST303
	C	4	9"x .0135"x13'-2 1/2"	ST303
	D	4	9"x .0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

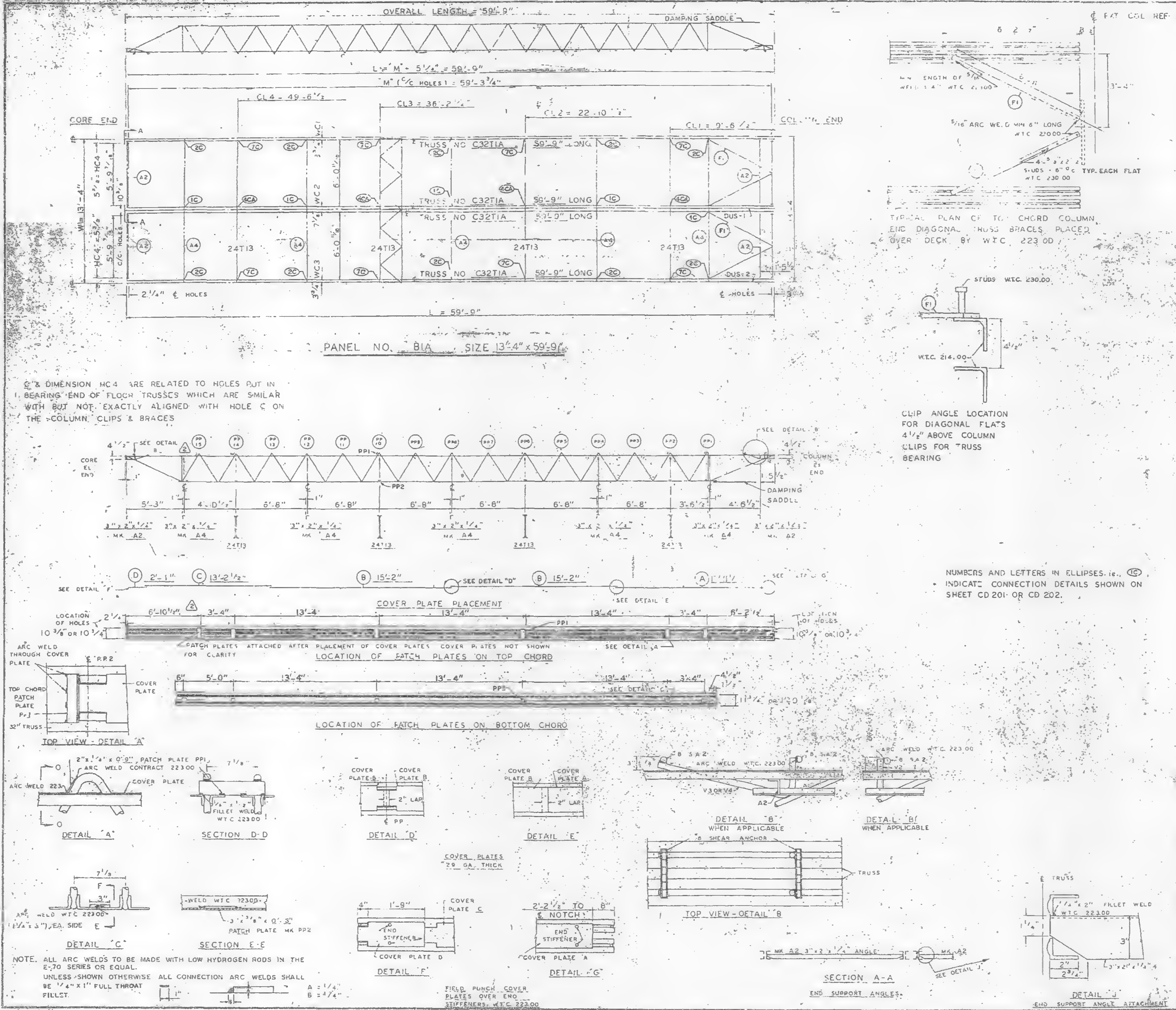
REF DRWG		
	7-A84-3, 3.1 & 39	1-3-68
	7-A84-15 & 16	5-6-68
	7-A84 41	1-3-68
	SA 124	10-20-67
	7-A83-2	1-3-68
	7-A81-2	2-15-68
	7-A82-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 74 (N)
PANEL AIP - 20'-0" x 57'-7"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-A83-3 4-1-68 PLATE	
APPROVED FOR FABRICATION James W. White FOR P.O.N.Y.A.	DATE 10/18/68	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO. WTC 221	SHEET NO FP AIP



TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES. ie., ⓘⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T1A	4	C32T1A 59'-9"	ST201A
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x [illegible]	ST403
	A4	3	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	[illegible] 2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-5"	ST400
COVER PLATES	A	2	9"x.0135"x [illegible]	[illegible]
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-3 5/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"φ x 1'-3"	ST 400
CONNECTION PLATES.	P1	5	3 1/2" x 3/4" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

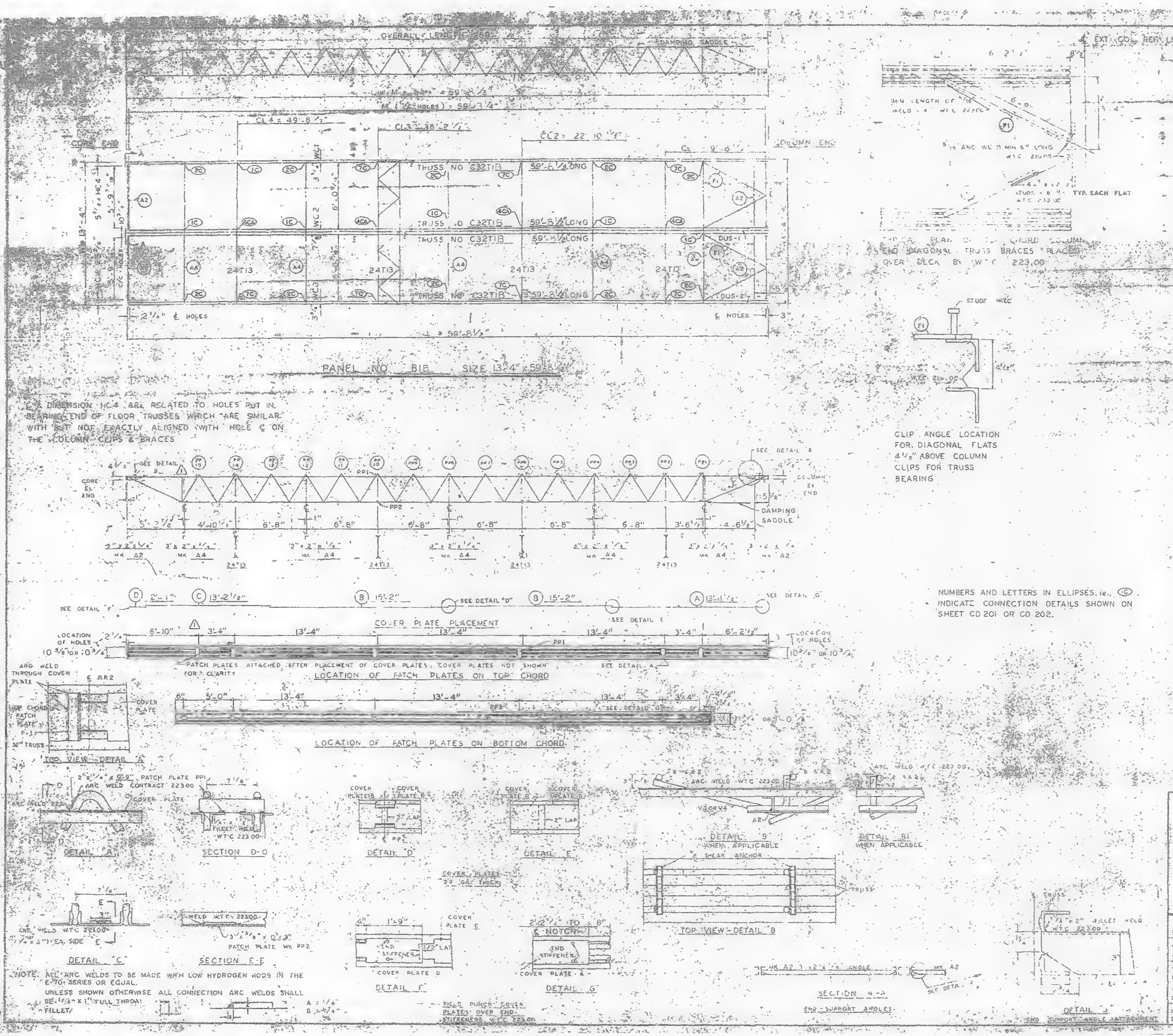
NO.	DATE	REVISION	BY
2	6-4-69	AS NOTED	G.O.C.
1	7-15-68	GENERAL	T.M.C.

2 REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-23-66
7-AB2-8	7-22-66

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 12-24, 26-38 (NORTH & SOUTH); 49-58, 60-66, 68
69 (NORTH) PANEL B1A - 13'-4" x 59'-9"
BLDG. B FLOORS 14-24, 26-39 (EAST & WEST) [illegible], 6[illegible]-69 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5
PLATE
APPROVED FOR FABRICATION BY James White N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R.PAUL DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP B1A


OVERALL LENGTH
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T1B 59'-8 1/2" LONG
TRUSS NO C32T15 59'-8 1/2" LONG
TRUSS NO C32T1B 59'-8 1/2" LONG
TRUSS NO C32T1B 59'-8 1/2" LONG
24T13
PANEL NO B1B SIZE 13'-4" x 59'-8 1/2"
EXT. COL. REF. LINE
TYP. EACH FLAT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "F"
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL G
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES, COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL A
DETAIL A
SECTION D-D
DETAIL "D"
DETAIL E
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
COVER PLATES 29 GA. THICK
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A END - SUPPORT ANGLES
DETAIL J END SUPPORT ANGLE ATTACHMENT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘC INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1B	4	[illegible] 59'-8 1/2"	ST 30[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	ST 21[illegible]
3 x 2" x 1/4 ANGLE	A2	4	[illegible]	ST 403
	A4	5	[illegible]	ST 403
DIAGONAL FLATS	[illegible]	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	400
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x 0135" x 13'-11 1/2"	ST 303
	B	4	9" x 0135" x 15'-2"	ST 303
	C	2	9" x 0135" x 13'-2 1/2"	ST 303
	D	2	9" x 0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-6	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 299
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 299
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/4" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

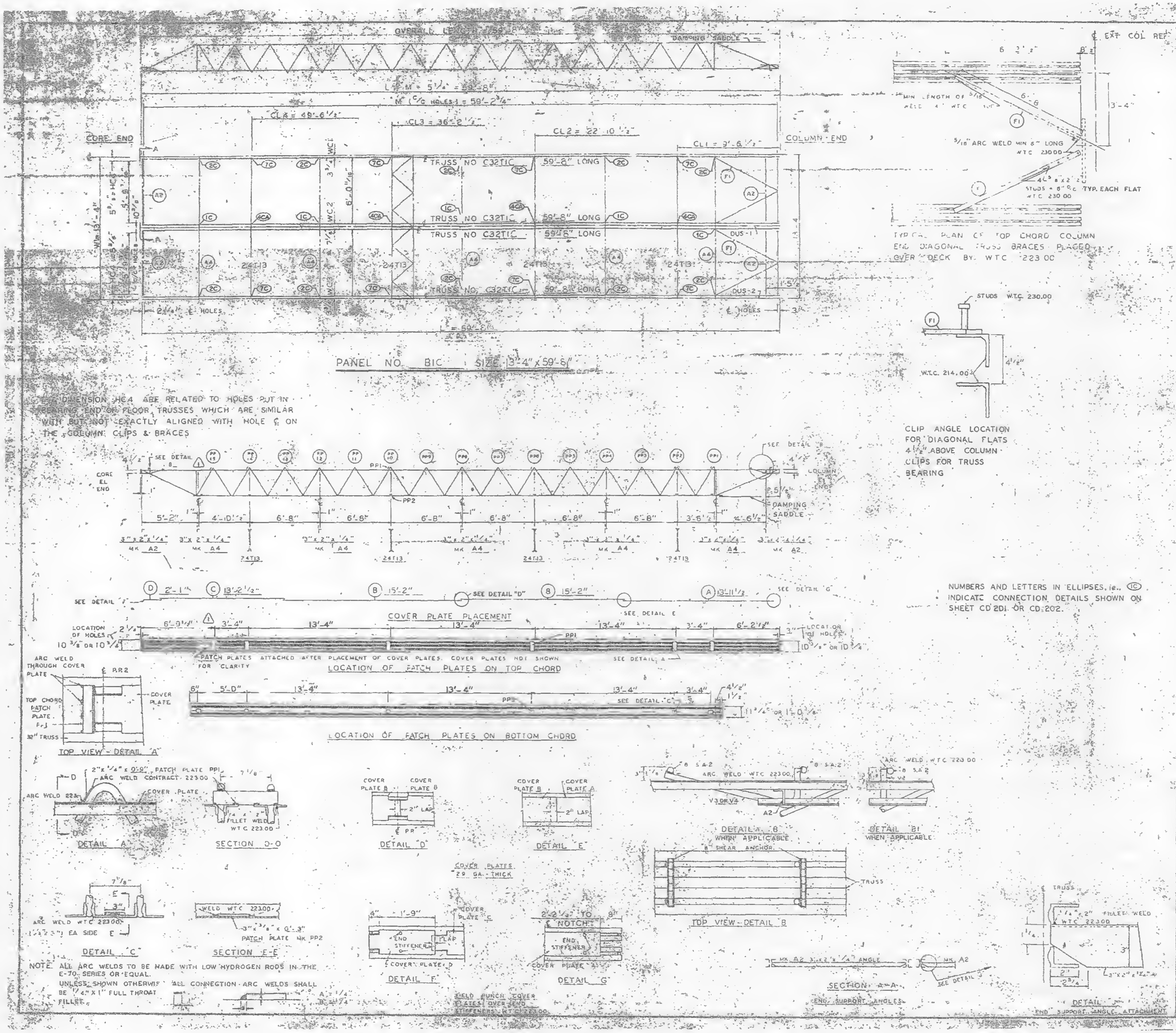
NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	G.D.C

1 REF DRWG	
7-AB4-43	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-AB2-4	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (N)
PA[illegible] 4" x 59'-8 1/2"
BLDG. B FLOORS 83-91, 93-106 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY James White FOR PNYA DATE 1/2/70
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY [illegible]
REF. DRAWING [illegible]
DATE [illegible] 1968
CHECKED BY [illegible] DATE OCT. [illegible] 1968
FABRICATION CONT. NO. W.T.C. 221
[illegible]


OVERALL LENGTH 59'-8"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-6" LONG
PANEL NO. B1C SIZE 13'-4" x 59'-8"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
COVER PLATES 29 GA. THICK
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW - DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
SECTION A-A END SUPPORT ANGLES
DETAIL END SUPPORT ANGLE ATTACHMENT
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00
STUDS @ 6" O.C. TYP. EACH FLAT WTC 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00

[illegible] DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF. DRWG
FLOOR TRUSSES	T1	4	C32T 59'-[illegible]	ST201
BRIDGING TRUSSES	T13	4	24T13 - 13 [illegible]	BT213
3"x 2" x ¼" ANGLE	A2	4	3"x2"x ¼ x 5-[illegible]	ST403
	A4	5	3"x2"x ¼ x 1[illegible]	ST403
DIAGONAL FLATS	F1	4	1½ x ⅝ x 6 8	[illegible] 1-2
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST400
	PP2	12	3" x ⅜" x 0'-3"	ST400
COVER PLATES	A	23	9" x .0135" x 15'-11½"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2½"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST296
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST296
CONNECTION BAR	CB1	4	1 ⅝ x 1'-3"	ST400
CONNECTION PLATES	P1	5	3½" x ⅜" x 8½"	ST400
	P2	4	4½" x .39" x 0'-8"	ST400
	P3	4	4½" x .39" x 1'-0"	ST400

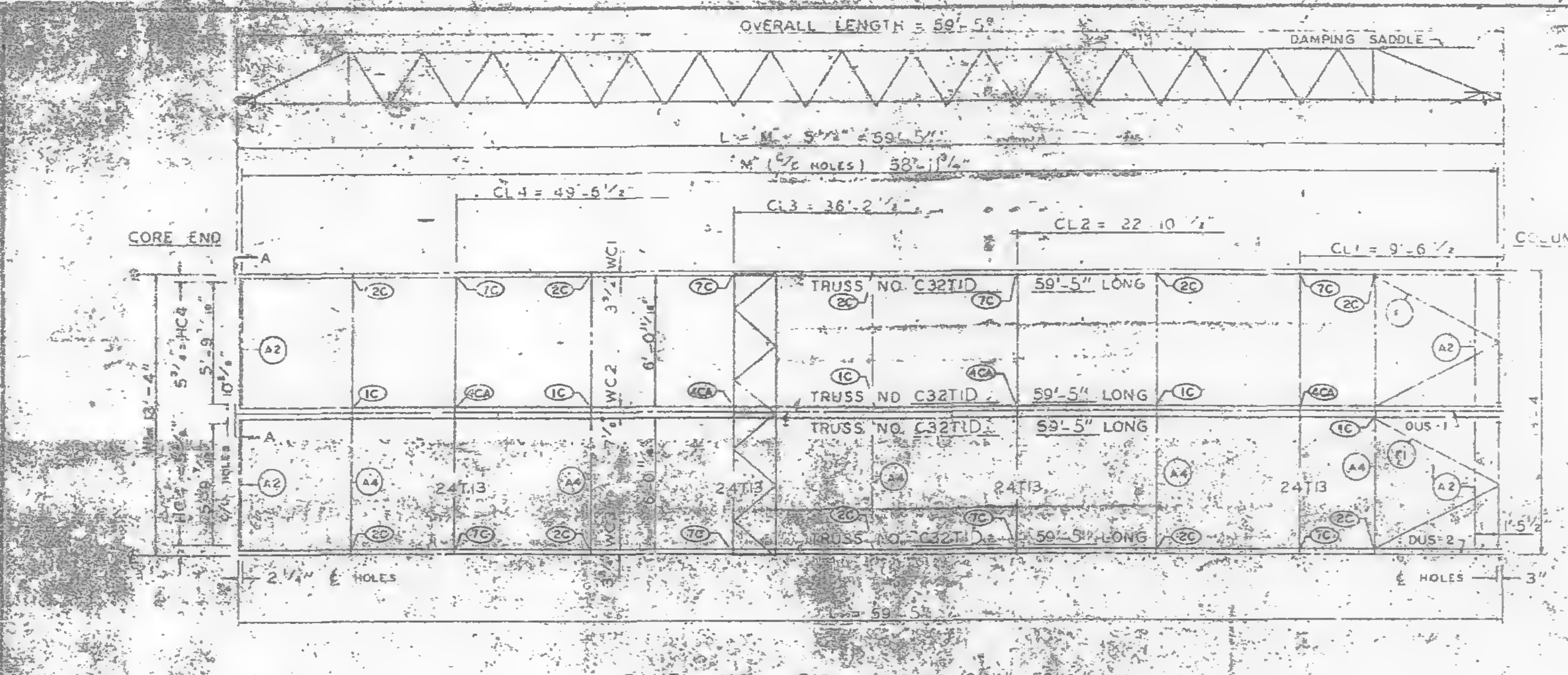
NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	GLC

1 REF. DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-69
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

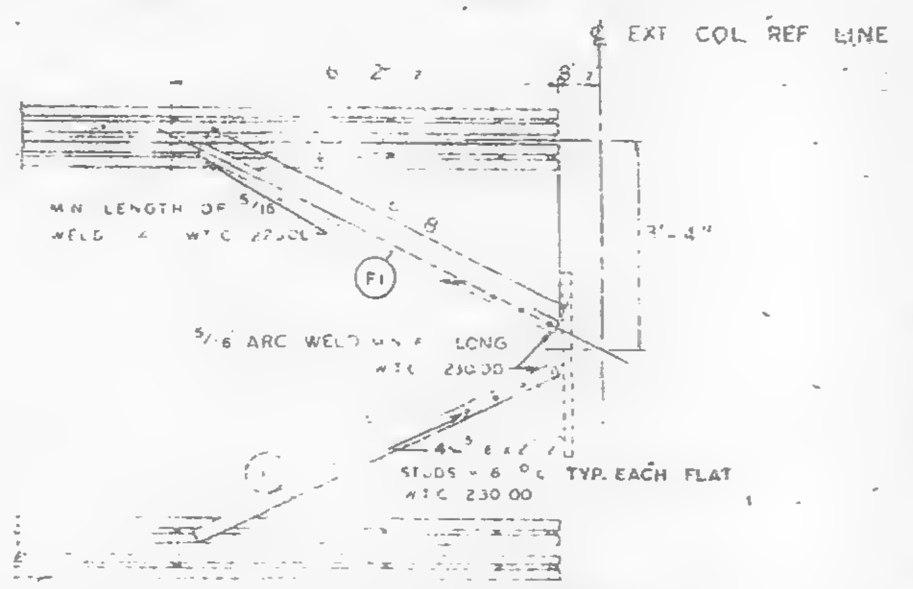
BLDG. A FLOORS 49-58, 60-66, 68-74, 79-91, 93-106
PANEL B1C - [illegible] x 59'-8"
1 BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5 PLATE
APPROVED FOR FABRICATION BY James White DATE 1/2/70
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible] 1968
IN CHARGE OF
DETAILED BY A.C. WEBER
FABRICATION CONTRACT W.T.C. 221[illegible]
FP-B1C

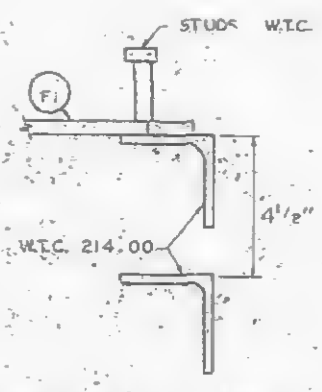


PANEL NO. B1D SIZE 13'-4" x 59'-5"

Ⓒ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Ⓒ ON THE COLUMN CLIPS & BRACES.

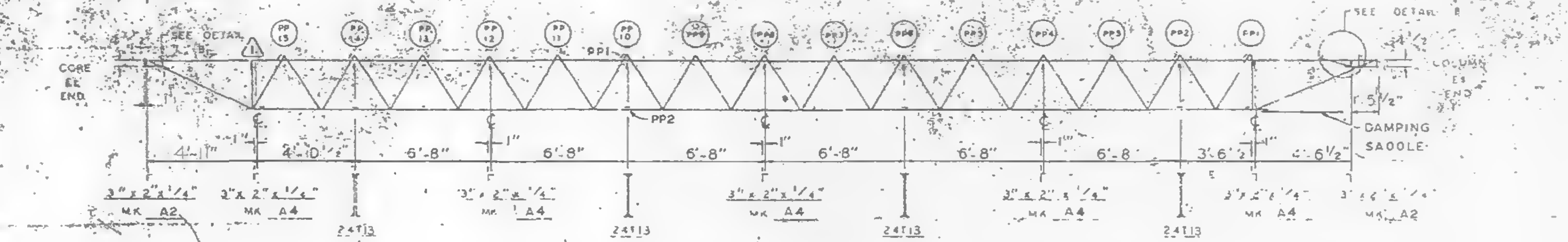

℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD WTC 223.00
F1
5/16 ARC WELD LONG WTC 230.00
3'-4"
STUDS 6" TYP. EACH FLAT WTC 230.00

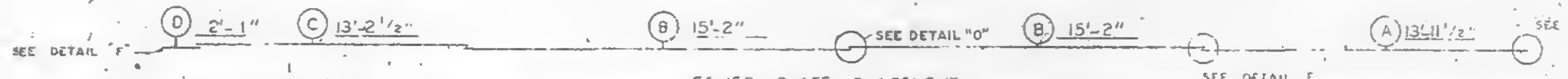
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00



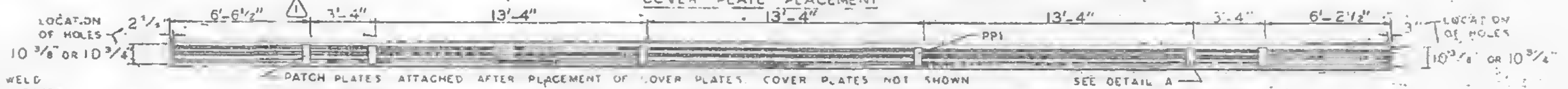
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T11	4	C32T1D 59'-5"	ST201
BRIDGING TRUSSES	T13	4	24T13 13'-3"	BT213
3"x2"x1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x12'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-5"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

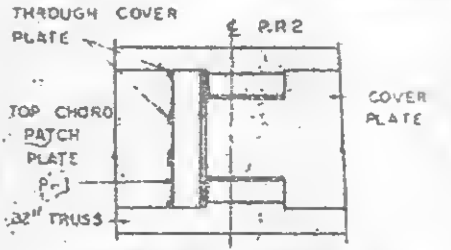




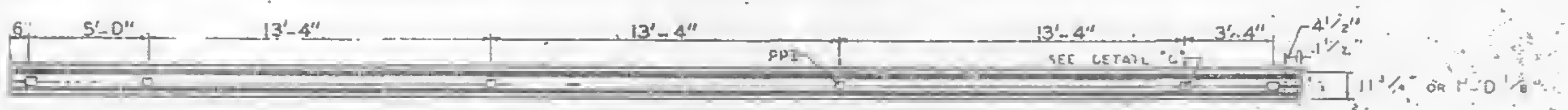
COVER PLATE PLACEMENT


LOCATION OF HOLES
2 1/2"
10 3/8" OR 10 3/4"
6'-6 1/2"
3'-4"
13'-4"
6'-2 1/2"
3"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A

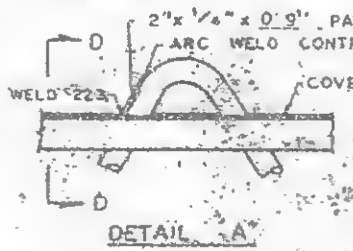
LOCATION OF PATCH PLATES ON TOP CHORD



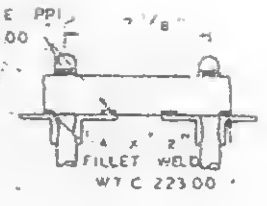
TOP VIEW - DETAIL "A"



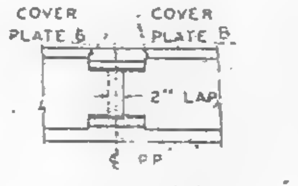
LOCATION OF PATCH PLATES ON BOTTOM CHORD



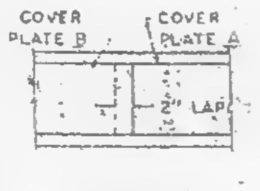
DETAIL "A"



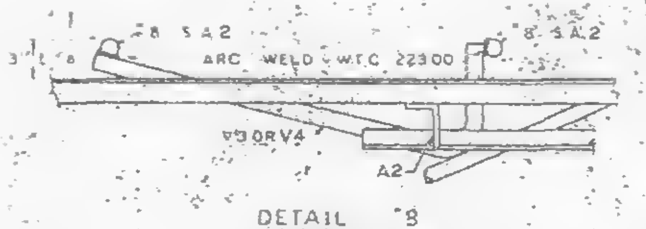
SECTION D-D



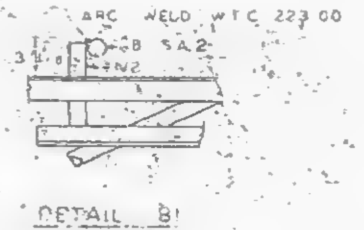
DETAIL "D"



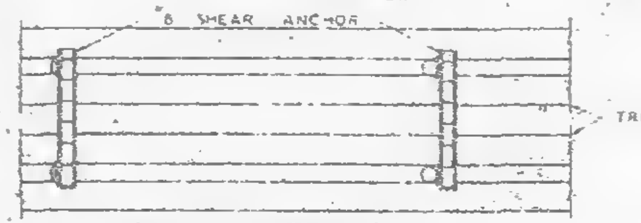
DETAIL "E"



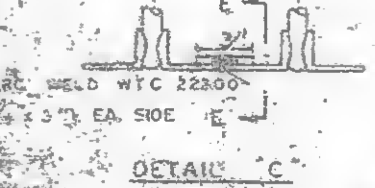
DETAIL "B"
WHEN APPLICABLE



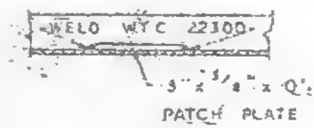
DETAIL "B'"
WHEN APPLICABLE



TOP VIEW DETAIL B

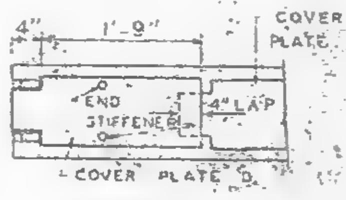


DETAIL "C"

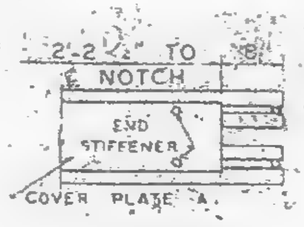


SECTION E-E

COVER PLATES 29 GA. THICK

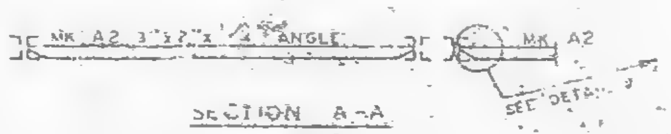


DETAIL "F"

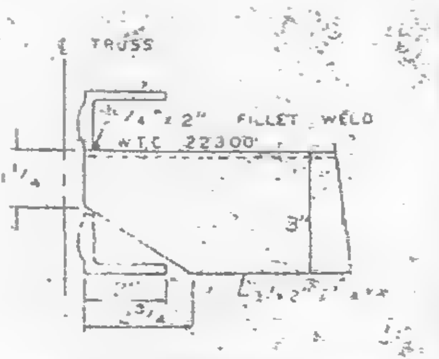


DETAIL "G"

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 223.00



SECTION A-A
END SUPPORT ANGLES



DETAIL
END SUPPORT ANGLE ATTACHMENT

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	G.L.

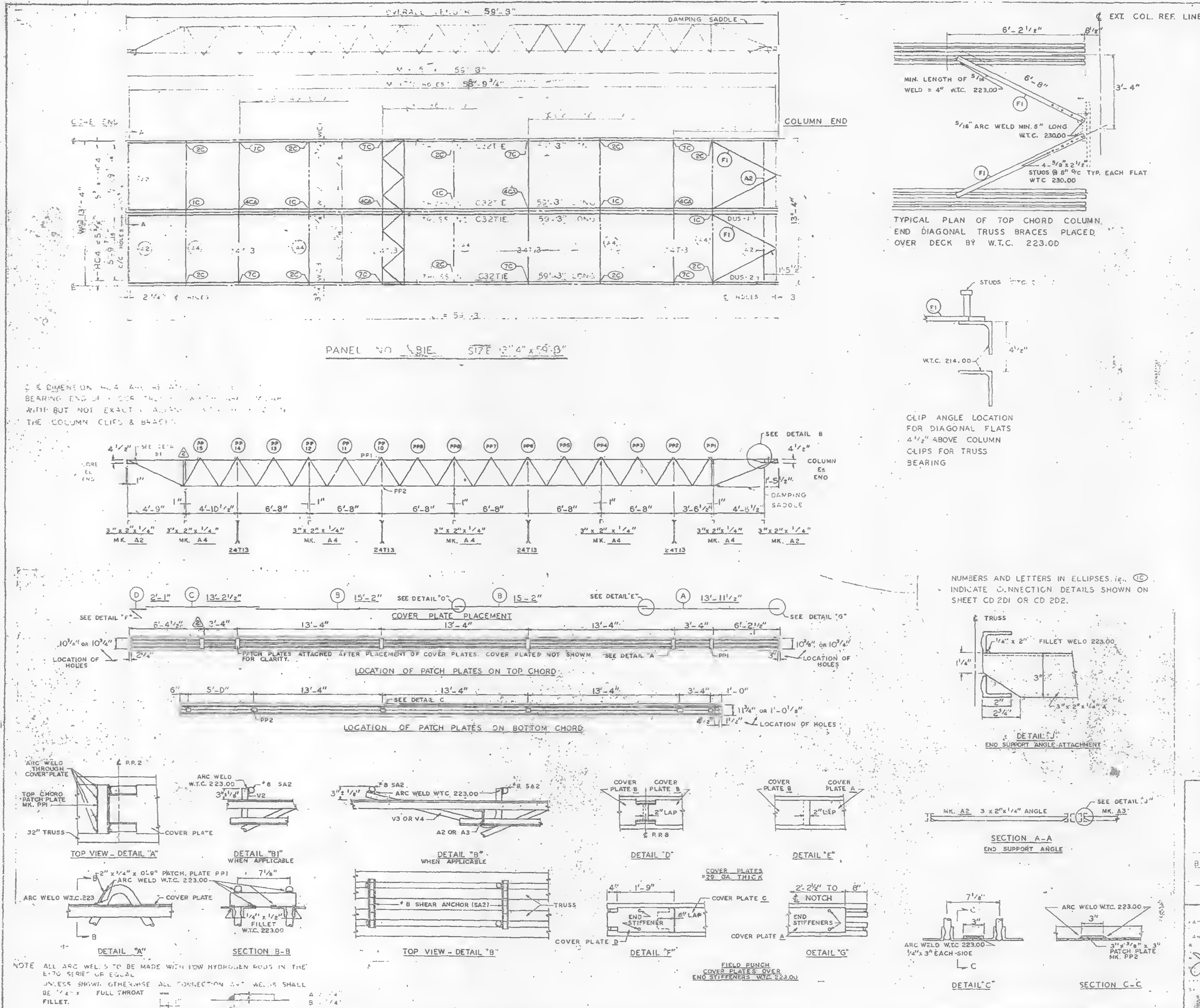
REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-42 10-15-68
SA 124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 7-24-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 N
PANEL 13'-4" x 59'-5"
BLDG. B FLOORS 81-82 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-5	PLATE
APPROVED FOR FABRICATION BY James White FOR Y.A.	DATE 1/2/70	DRAWN BY DATE OCT 1968	
APPROVED FOR FABRICATION BY	DATE	CHECKED BY J.V. DATE OCT 5, 1968	IN CHARGE OF PROD. DIV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C 221	SHEET NO. FP B1D



NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ANGLE WELDS SHALL BE 1/4" x FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
[illegible]	MK	PC	SIZE	
[illegible]	TE	4	C32TE 59'-3"	ST201E
	T13	4	24T13 - 13'-3"	ST213
	A2	4	[illegible]	ST403
	A4	5	[illegible]	ST403
[illegible]		4	[illegible]	[illegible] 2
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	3 [illegible] 3"	ST400
COVER PLATES	A	2	9" x 0135" x 13'-11 1/2"	ST303
	B	4	9" x 0135" x 15'-2"	ST303
	C	2	9" x 0135" x 13'-2 1/2"	ST303
	D	2	9" x .135" x 2'-1"	ST303
ANGLE CLIPS	[illegible]	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CS1	4	1" Ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

NO.	DATE	REVISION	BY
2	5-4-69	AS NOTED	G.D.C.
1	7-15-68	GENERAL	I.M.C.

2 REF. DWGS.
ABA 3 10-15-68
ABA 5 & 6 7-22-68
ABA 42 10-15-68
SA 24 1-6-69
ABA 4 3-8-68
AB1 2 7-22-68
ABA 18 7-22-68

NEW YORK AUTHORITY

BLDG A FLOORS 10-11 (NORTH & SOUTH)

PANEL 13'-4" x 59'-3"

PACIFIC CAR AND FOUNDRY CO.

SHOP DRAWING NO

James White 1/2/10

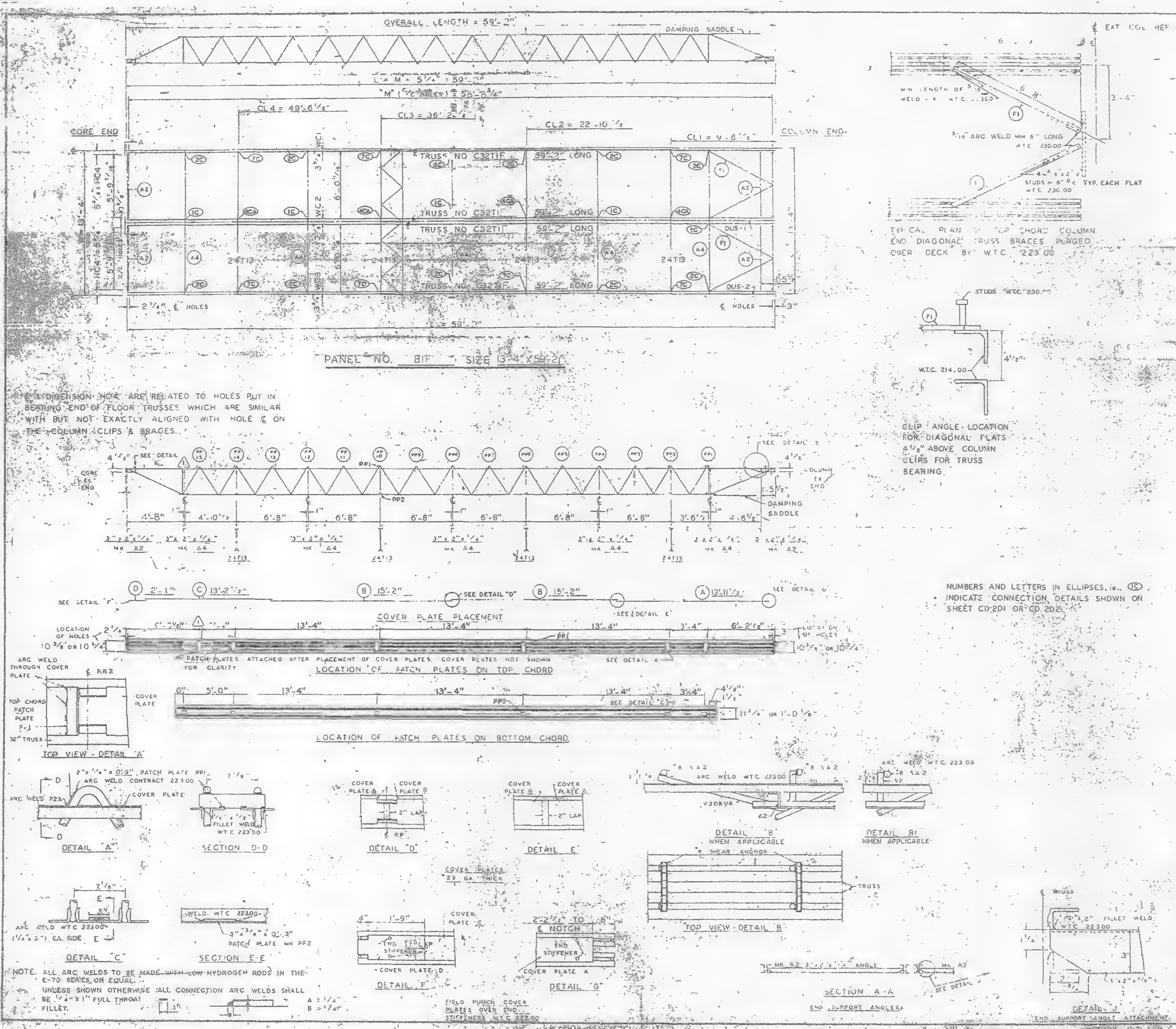
DATE FEB 24, 1968

CHECKED BY DATE FEB 24, 1968

PROD. DE.

221

SHEET FP 81E



CL & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE ~~WITH LOW~~ HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
~~FLOOR TRUSSES~~	T1F	4	C32T1F - 59'-2"	ST201F
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3" x 2" x ¼ ANGLE	A2	4	3" x 2" x ¼" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x ¼ x 13'-3	ST403
DIAGONAL FLATS	F1	4	1½" x ⅝" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST400
	PP2	12	3" x ⅜" x 0'-3"	ST400
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2½"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	8	3½" x ⅜" x 6½"	ST400
	P2	4	4½" x .39" x 0'-9"	ST400
	P3	4	4½" x .39" x 1'-0"	ST400

NO.	DATE	REVISION	BY
1	[illegible]	[illegible]	

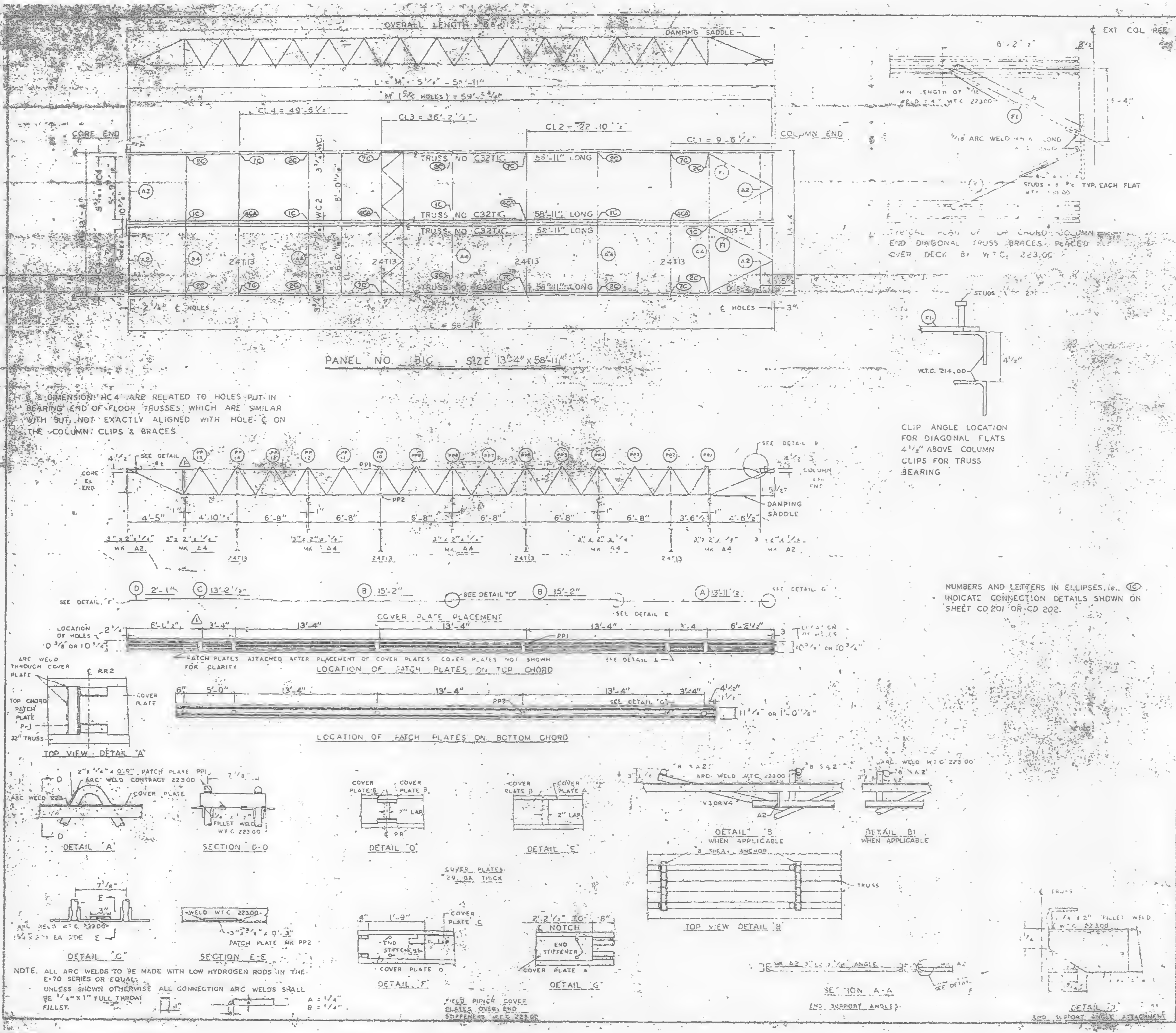
REF DRWG	
7-AB4-3	[illegible]
7-AB4-15 & 16	[illegible]
7-AB4-42	[illegible]
SA-124	[illegible]
7-AB3-2	1-3-68
7-AB1-2	[illegible]
7-AB2-8	[illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-48(E), 47-48, 70-71(W)
PANEL B1F [illegible] x 59'-2"
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3 [illegible]	PLATE
APPROVED FOR FABRICATION P.O.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE [illegible] 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE [illegible] 1968	IN CHARGE OF [illegible]
DETAILED BY A.G. WEBER		FABRICATION CONT. NO. W.T.C. 221 [illegible]	SHEET NO. [illegible] B1F



€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS	SIZE	DRWG
FLOOR TRUSSES	T1G	4	C32T1G - 58'-11"	ST201G
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x [illegible]'-6"	ST403
	A4	5	3"x2"x¼"x13'-3"	ST403
DIAGONAL FLATS	F1	4	2"x⅝"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x¼"x0'-9"	ST400
	PP2	12	3"x⅜"x0'-3"	ST400
COVER PLATES	A	2	9"x0.135"x13'-11½"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2½"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1½"x¼"x0'-6"	ST 400
8 SHEAR ANCHOR	SA2	6	8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½"x3½"x⅜"x3'-5⅞"	ST298
	DUS-2	1	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½"x3½"x8½"	ST 400
	P2	4	4½"x.30"x0'-0"	ST 400
	P3	4	4½"x.30"x1'-0½"	ST 400

NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	C.J.C.

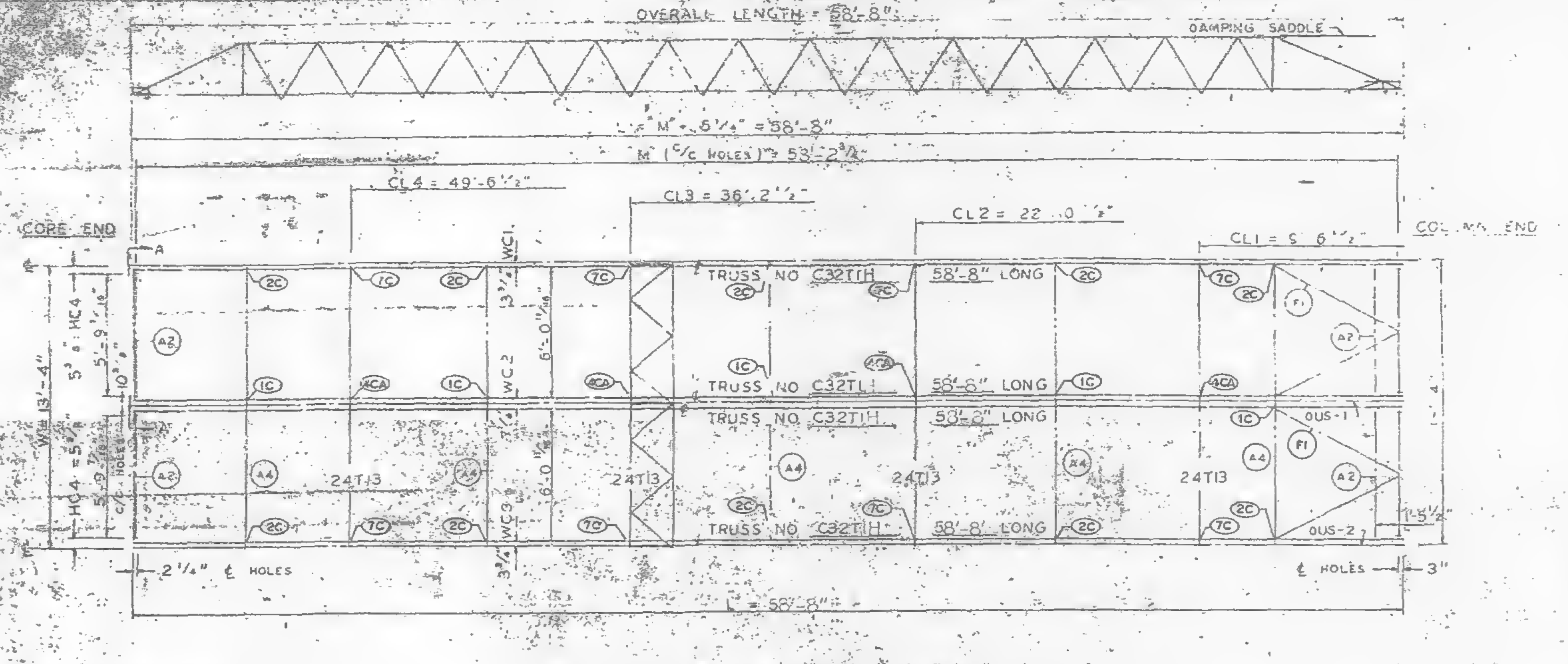
REF DRWG		
	7-AB4-8	10-15-68
	7-AB4-15 & 16	7-26-68
1	7-AB4-42	10-15-68
	SA-124	1-6-69
	7-AB3-2	11-3-68
	7-AB1-2	7-26-68
	7-AB2-8	7-26-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

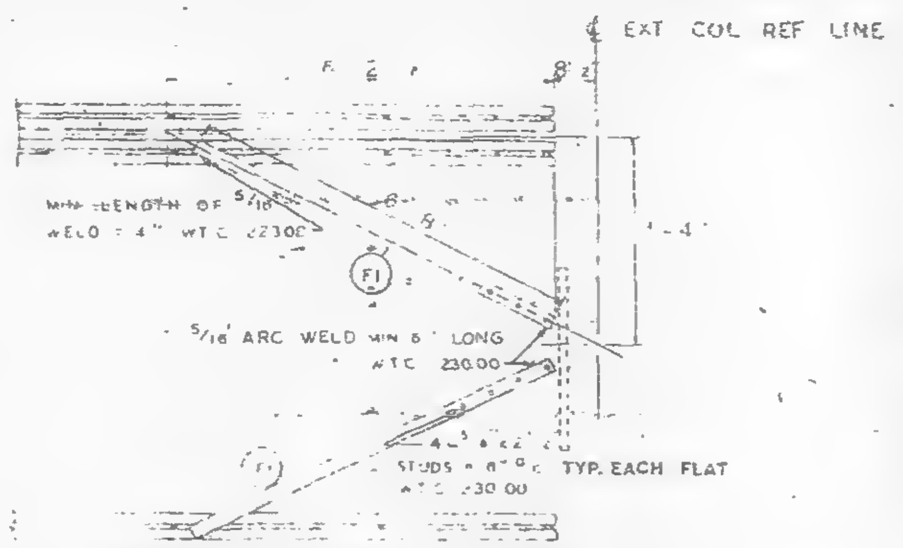
BLDG. A FLOORS 39-40 (NORTH & SOUTH)
PANEL B1G 13'-4" x 58'-11"
1 BLDG. B FLOORS 39-40 (EAST & WEST)

FABRICATION BY LACLEDE STEEL COMPANY

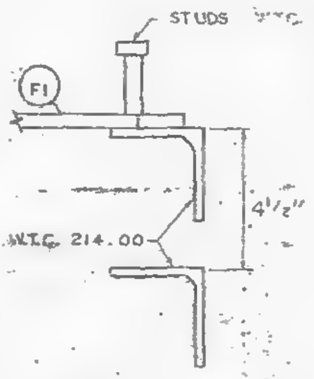
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-5	PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA	DATE 1/2/70	DRAWN BY [illegible] DATE OCT. 15, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.C. DATE OCT. 15, 1968	IN CHARGE OF [illegible]
DETAILED BY [illegible]		FABRICATION CONT. NO. WTC 221	SHEET NO. FD B1G



PANEL NO. B1H SIZE 13'-4" x 58'-8"


℄ EXT COL REF LINE
MIN LENGTH OF 5/16" WELD = 4" W.T.C. 223.00
F1
5/16" ARC WELD MIN 8" LONG W.T.C. 230.00
STUDS W.T.C. 230.00
TYP. EACH FLAT

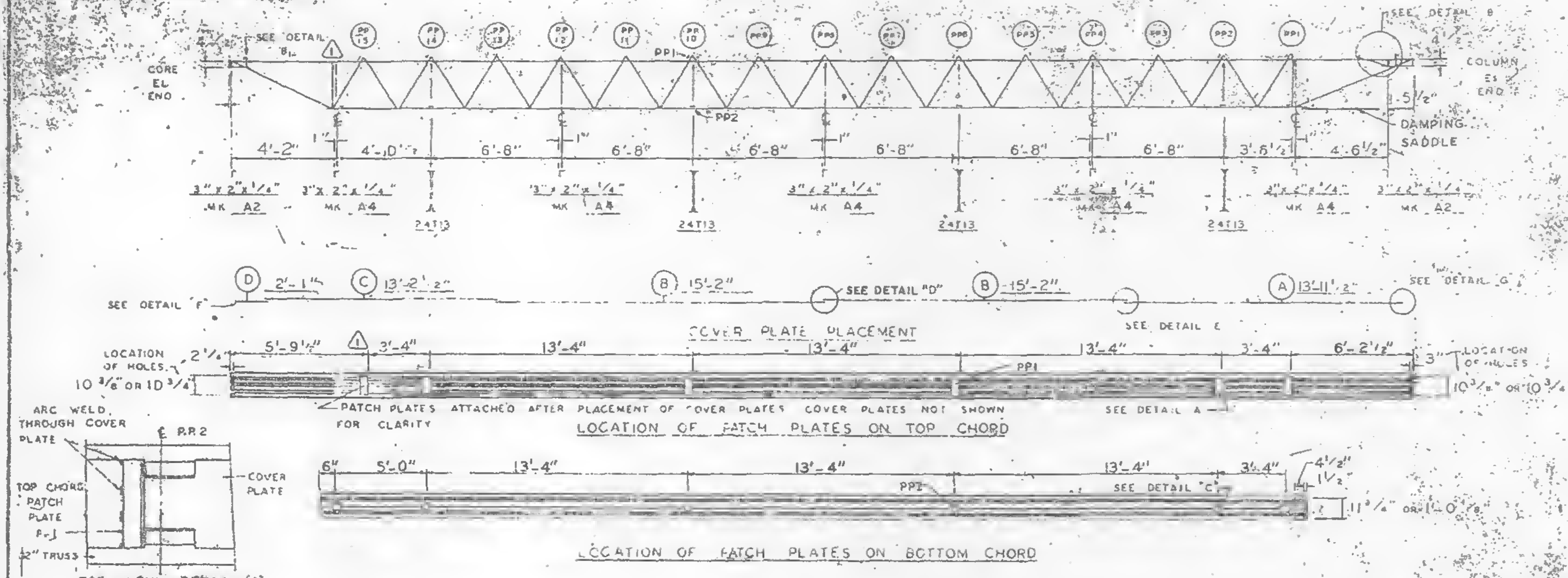
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				SEE DRWG
MATERIAL	MK.	PC.	SIZE	
FLOOR TRUSSES	T1	4	C32T1 · 58'-8"	ST201H
BRIDGING TRUSSES	T13	4	24T13 · 13'-3"	BT213
3 x 2 x 1/4 ANGLE	A2	4	[illegible]	ST403
	A4	5	[illegible]	ST403
DIAGONAL FLATS	F	4	[illegible]	ST402
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	3" x 3/8" x 0'-3"	[illegible]
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	CL	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .30" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

C.L. DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.



LOCATION OF PATCH PLATES ON TOP CHORD

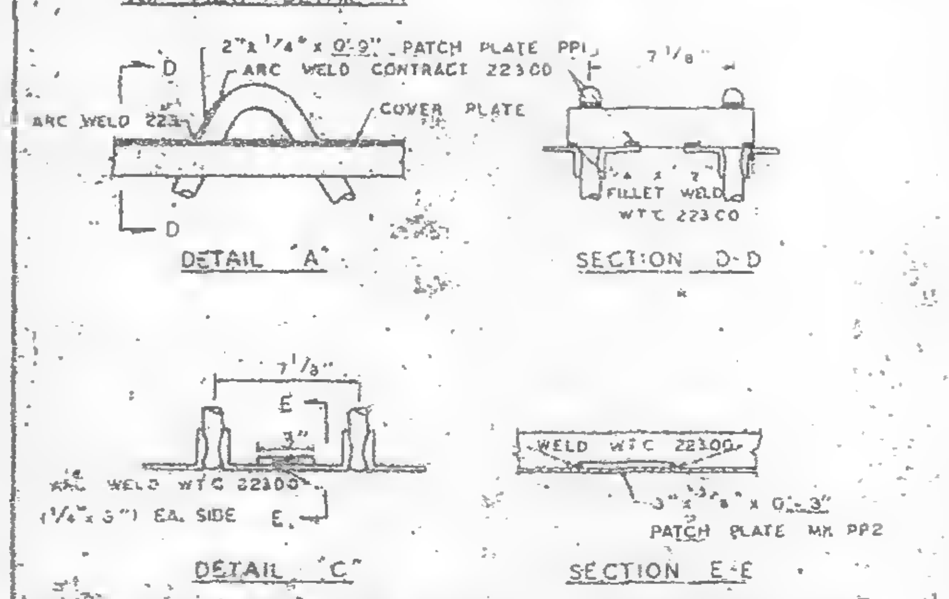
LOCATION OF PATCH PLATES ON BOTTOM CHORD

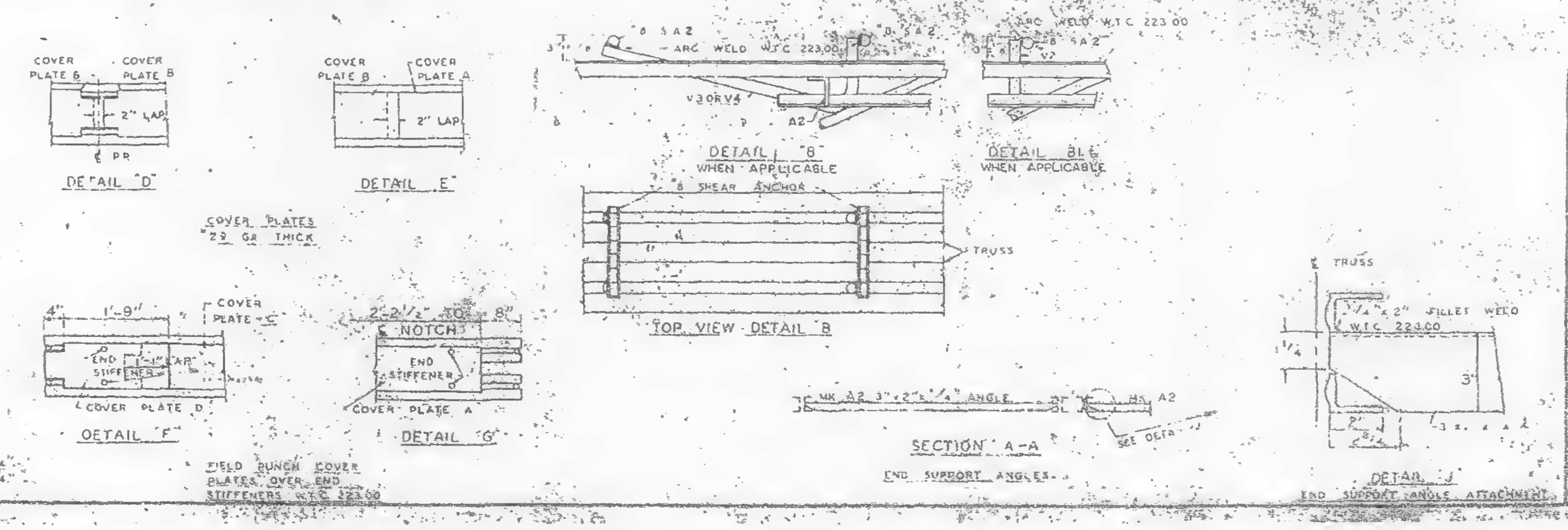
TOP VIEW DETAIL "A"

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

⚠1	6-4-69	AS NOTED	DC
NO.	DATE	REVISION	BY

REF. DRWG		
	7-AB4-3	10-15-68
	7-AB4-12 & 16	7-22-68
⚠1	7-AB4-42	10-15-68
	SA-124	1-6-69
	7-AB3-2	1-3-69
	7-AB1-2	7-22-68
	7-AB2-8	7-22-68


2" x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
ARC WELD 223.00
D
7 1/8"
FILLET WELD W.T.C. 223.00
DETAIL "A"
SECTION D-D
7 1/8"
E
3"
ARC WELD W.T.C. 223.00 (1/4" x 3") EA. SIDE
DETAIL "C"

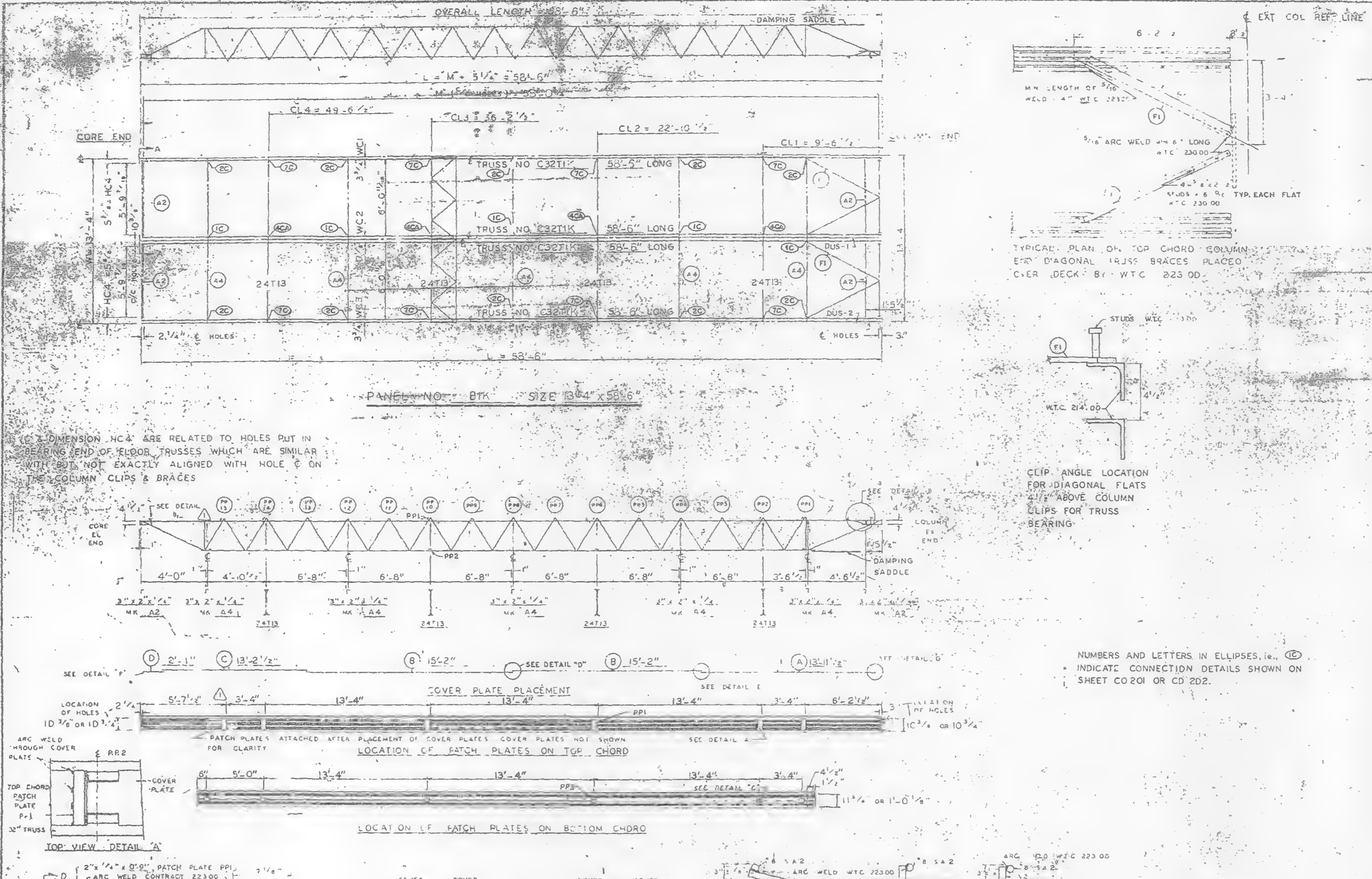


NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80 (N)
PANEL B1H 13'-4" x 58'-8"
BLDG. B FLOORS 79-80 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5
APPROVED FOR FABRICATION BY James White DATE 1/2/70
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE OCT. 1968
IN CHARGE OF
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FB-81


OVERALL LENGTH 58'-6"
DAMPING SADDLE
L = M + 5 1/4" = 58'-6"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
TRUSS NO. C32T1K 58'-5" LONG
TRUSS NO. C32T1K 58'-6" LONG
TRUSS NO. C32T1K 58'-6" LONG
TRUSS NO. C32T1K 58'-6" LONG
24T13
DUS-1
DUS-2
L = 58'-6"
PANEL NO. B1K SIZE 13'-4" x 58'-6"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK B1 WTC 223.00
5/16 ARC WELD 4" 6" LONG WTC 230.00
STUDS WTC 230.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
CORE EL END
COLUMN EL END
DAMPING SADDLE
4'-0" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-6 1/2" 4'-6 1/2"
COVER PLATE PLACEMENT
D 2'-1" C 13'-2 1/2" B 15'-2" B 15'-2" A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL E
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD

Ⓒ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Ⓒ ON THE COLUMN CLIPS & BRACES

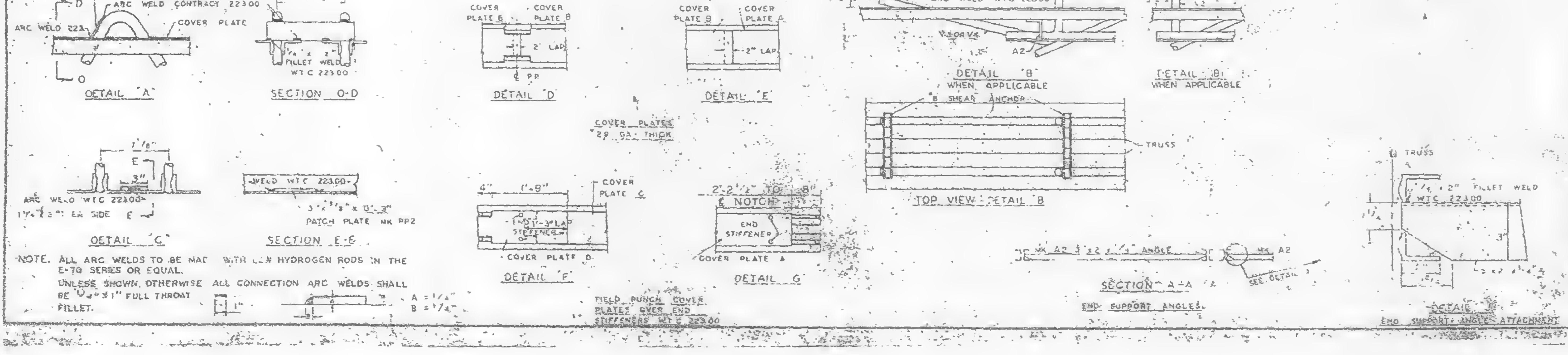
NUMBERS AND LETTERS IN ELLIPSES, ie., ⑴Ⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T1K	4	C32T1K - 58'-6"	ST201K
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 5/16"	ST403
	A4	5	3" x 2" x 1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1/2" x 5/8" x 6'-8"	ST412
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ∅ x 1'-3"	ST400
CONNECTION PLATES	P1	9	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

NO.	DATE	REVISION	BY
⚠1	6-4-69	AS NOTED	GJ

REF DRWG ⚠1

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-9	7-22-68

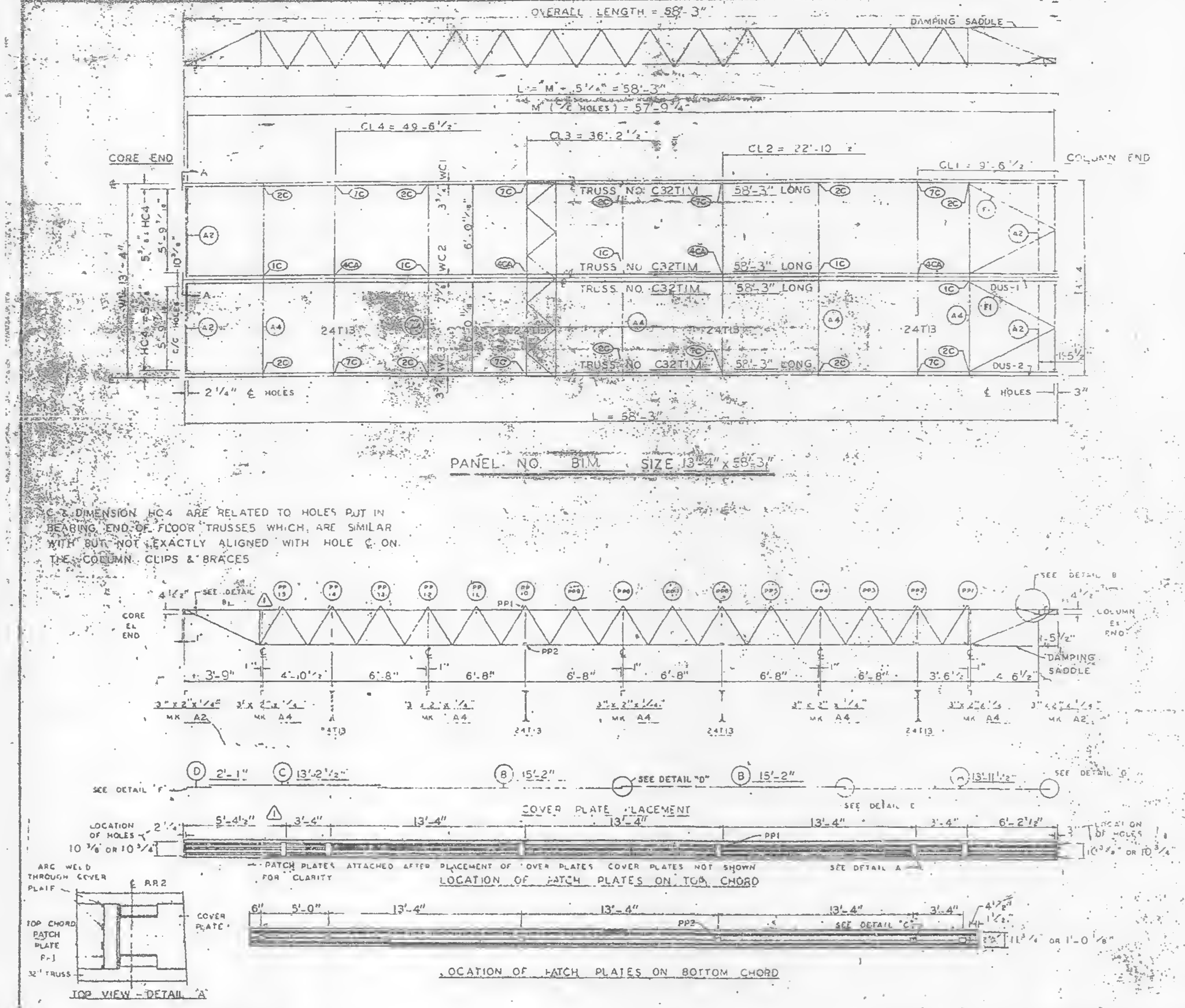

TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
COVER PLATES 29 GA. THICK
DETAIL "C"
SECTION E-E
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

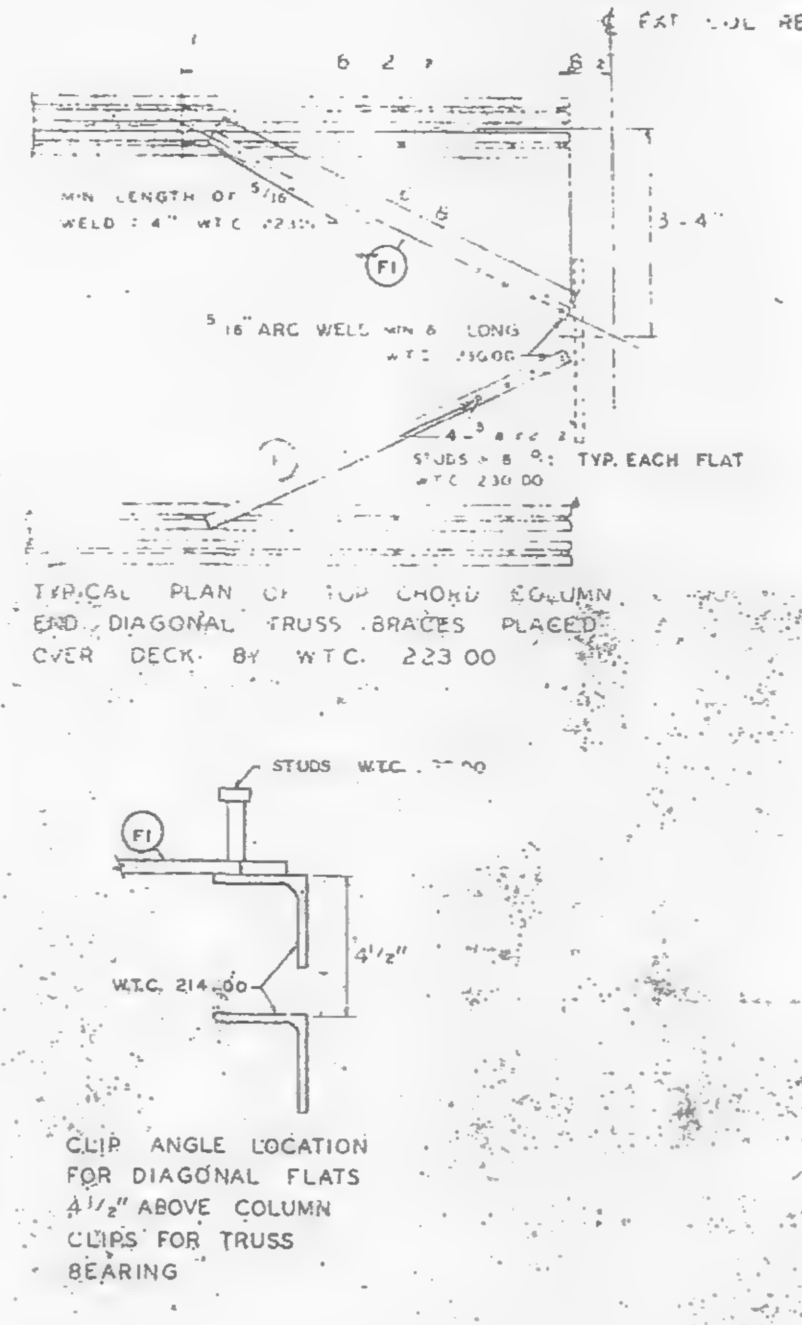
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-46(S) + 46(N)
PANEL B1K 13'-4" x 58'-6"
BLDG. B FLOORS 45-46 (EAST) 46 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-5 4-1-69	PLATE
APPROVED FOR FABRICATION BY James White FOR P.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE OCT 1 1968	
APPROVED FOR FABRICATION BY [illegible]	DATE	CHECKED BY [illegible] DATE OCT 1 1968	IN CHARGE OF [illegible]
DETAILED BY [illegible] STEEL		FABRICATION CONT. NO. WTC 221	SHEET NO. B1K



C-C DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES



℄ EXT. COL. REF LINE
MIN. LENGTH OF 5/16 WELD: 4" W.T.C. 223.00
5/16 ARC WELD MIN 6 LONG W.T.C. 223.00
STUDS × 8 °: TYP. EACH FLAT
F1
STUDS W.T.C. 223.00
W.T.C. 214.00
4 1/2"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

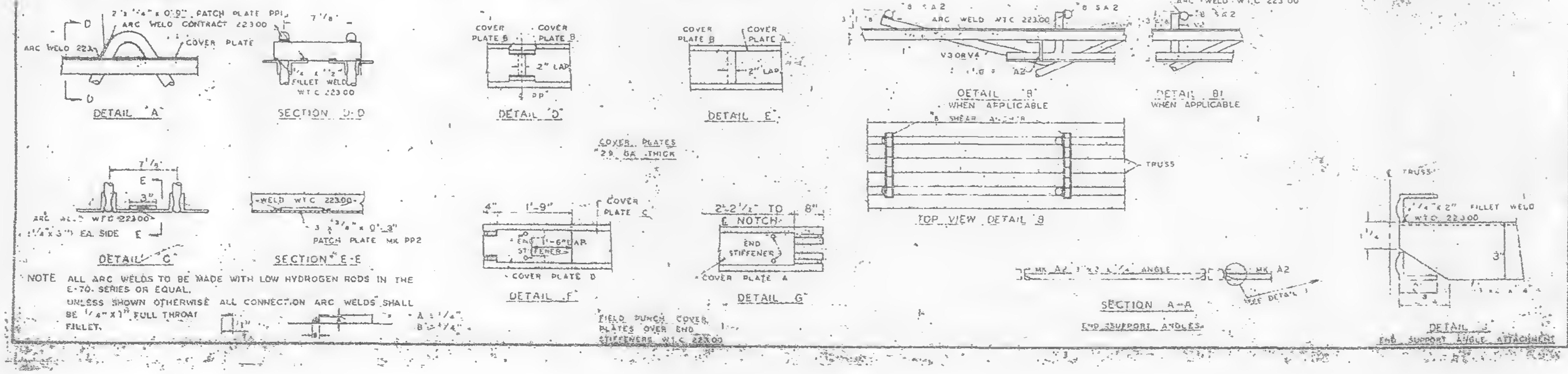
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1M	4	C32T1M - 58'-3"	ST201M
BRIDGING TRUSSES	T13	4	24T13 13'-3"	ST213
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5'-9/16	ST403
	A4	5	3"x2"x1/4"x1'-3	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST403
	PP2	12	3"x3/8"x0'-3"	ST403
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135 x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/4" x 6 1/8"	ST 400
	P2	4	4 1/2" x .390" x 0'-9"	ST 400
	P3	4	4 1/2" x .390" x 1'-0"	ST 400

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	GJC

REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
△1 7-AB4-42 10-15-68
SA 124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68



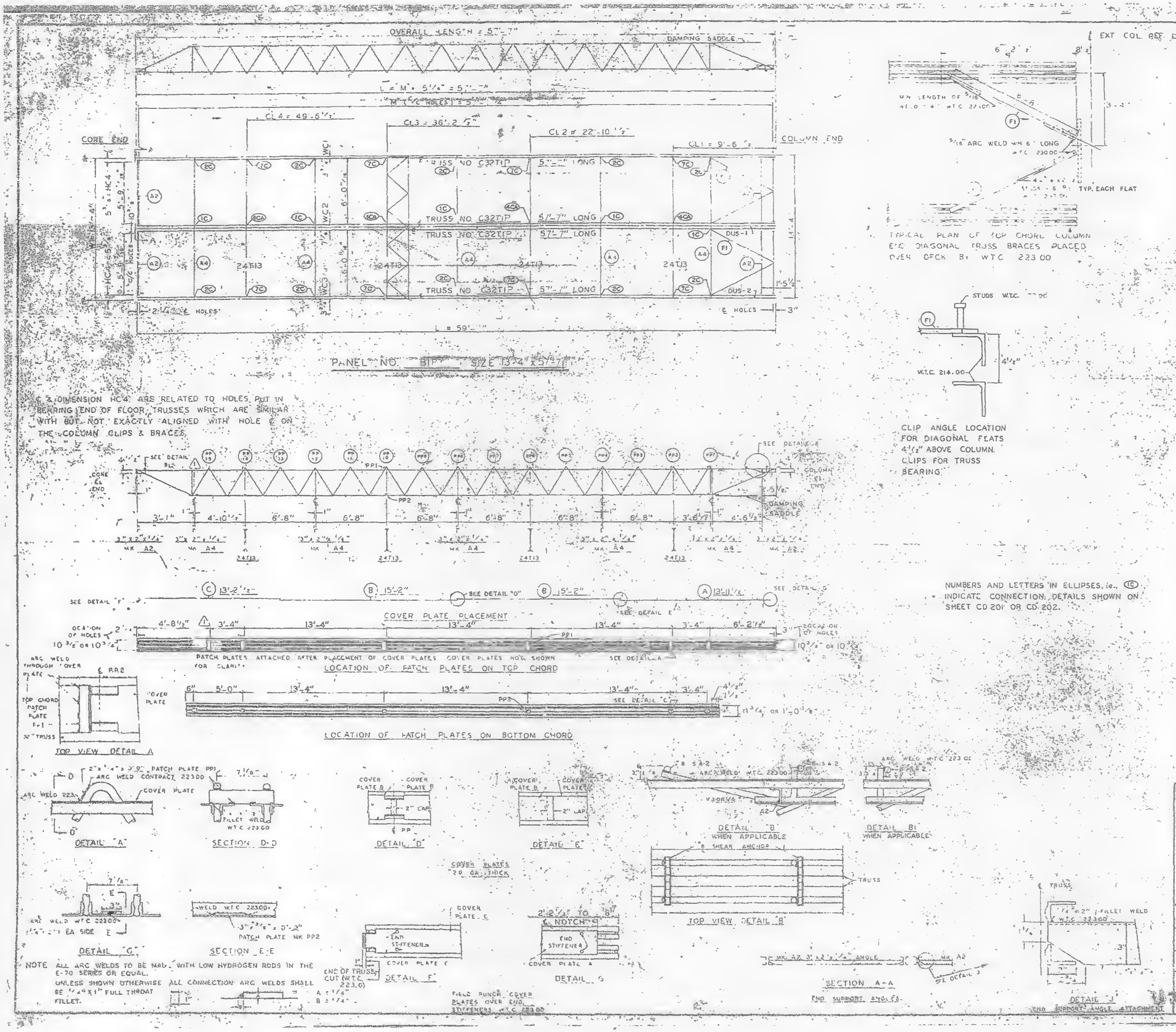
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x1" FULL THROAT FILLET.

A: 1 1/4"
B: 1 1/4"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL B1M
BLDG. B FLOORS 72-73 (WEST) △1

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-5 PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 1/2/70	DRAWN BY [illegible] DATE OCT. 1 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY [illegible] IN CHARGE OF DATE OCT. 1 1968
DETAILED BY [illegible]	FABRICATION CONT. NO. W.T.C. 221 SHEET NO. 72 B1 1A



C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL FOR PANEL				SEE
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1	4	C32T1 5'-"	ST201
BRIDGING TRUSSES	T13	4	24T13 13'-3"	ST213
3"x 2"x 1/4 ANGLE	A2	4	3"x 2"x 1/4"x 5'-11 9/16	ST 403
	A4	5	3"x 2"x 1/4 x 13'-3"	ST 403
DIAGONAL FLATS	F1	2	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8"x 0'-2"	ST 400
COVER PLATES	A	2	9"x .0135"x 13'-11 1/2	ST 303
	B	4	9"x .0135"x 15'-2"	ST 303
	C	2	9"x .0135"x 13'-2 1/2	ST 303
	D	2	9"x .0135"x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2"x 1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2		#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

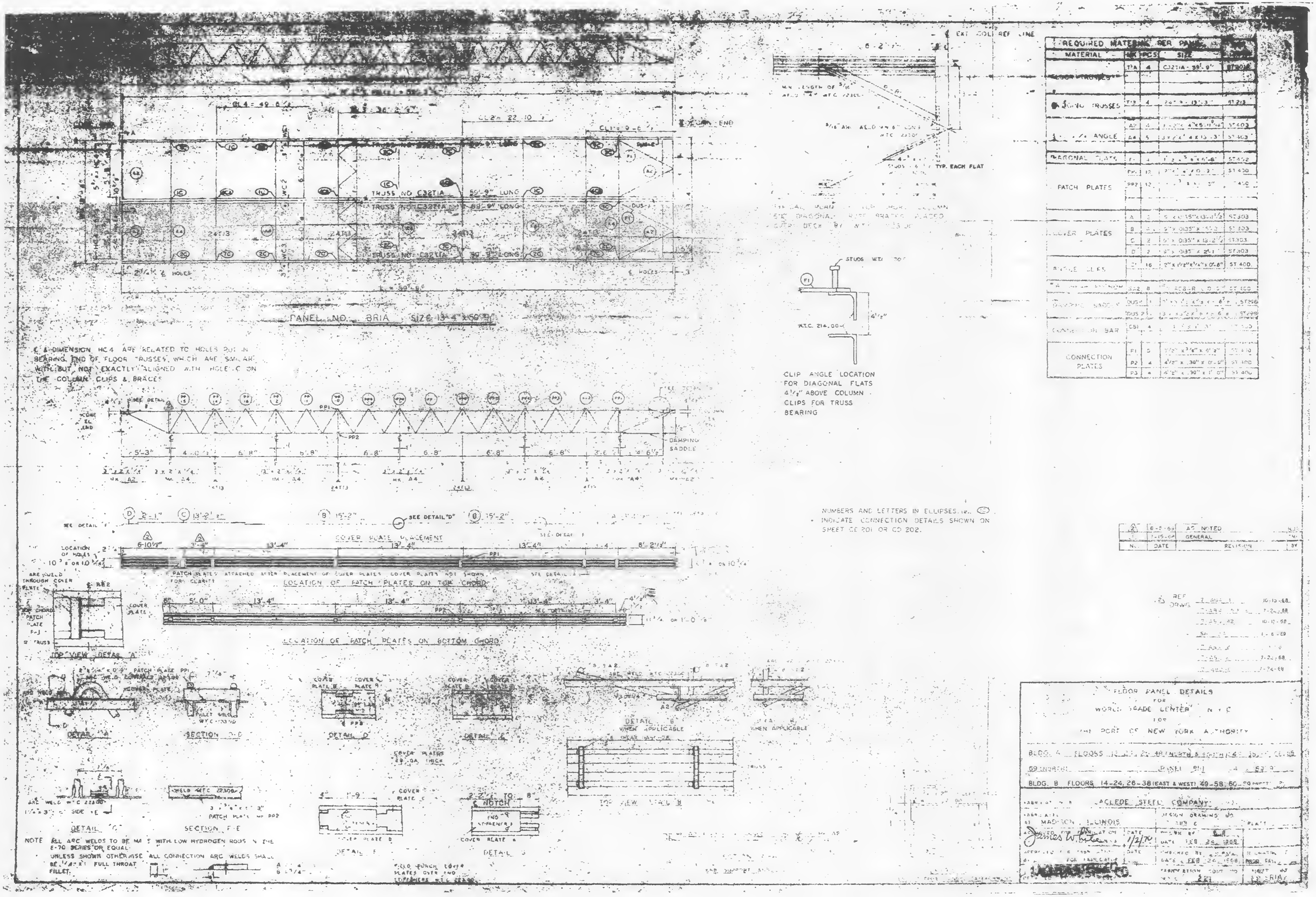
NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	G.

1 REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 1-22-68
7-AB4-42 10-15-68
SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 71(W)
PANEL B1P 13'-4" x 57'-7"
BLDG. B FLOORS 74 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3-5
PLATE
APPROVED FOR FABRICATION James Wh[illegible] N Y A
DATE 1/2/70
DRAWN BY
DATE 13, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY J.V. CHUGA
DATE 1968
IN CHARGE OF
DETAILED BY A.C. FIGER
FABRICATION CONT. W.T.C. 221
SHEET NO.


PANEL NO. 8R1A SIZE 13'-4" x 59'-9"
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
2ND TRUSS
EXT. COL. REF. LINE
TYP. EACH FLAT
STUDS W.T.C.
W.T.C. 214.00-1
4 1/2"
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION F-F
DETAIL "F"
DETAIL "G"
COVER PLATES 28 GA. THICK
ARC WELD W.T.C. 22300
WELD W.T.C. 22300
PATCH PLATE MK PP2
NOTCH
END STIFFENER
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES, WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1A	4	C32T1A - 59'-9"	ST301
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
ANGLE	A2	4	[illegible]	ST403
	A4	5	3 x 2 x 1/4 x 13'-3"	ST403
DIAGONAL FLATS	F	4	[illegible]	ST402
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	[illegible]	ST400
COVER PLATES	A	2	9" x 0.035" x 13'-8 1/2"	ST303
	B	4	9" x 0.035" x 15'-2"	ST303
	C	2	9" x 0.035" x 13'-2 1/2"	ST303
	D	2	9" x 0.035" x 2'-1"	ST303
ANGLE CLIPS	C	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
[illegible]	BA2	8	REBAR [illegible]	ST 400
DAMPING SADDLE	DUS1	1	[illegible]	ST296
	DUS2	1	[illegible]	ST298
CONNECTION BAR	CB1	4	[illegible]	ST 400
CONNECTION PLATES	P1	5	1/2" x 3/8" x 0'-8"	ST 400
	P2	4	4 1/2" x .30" x 0'-6"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

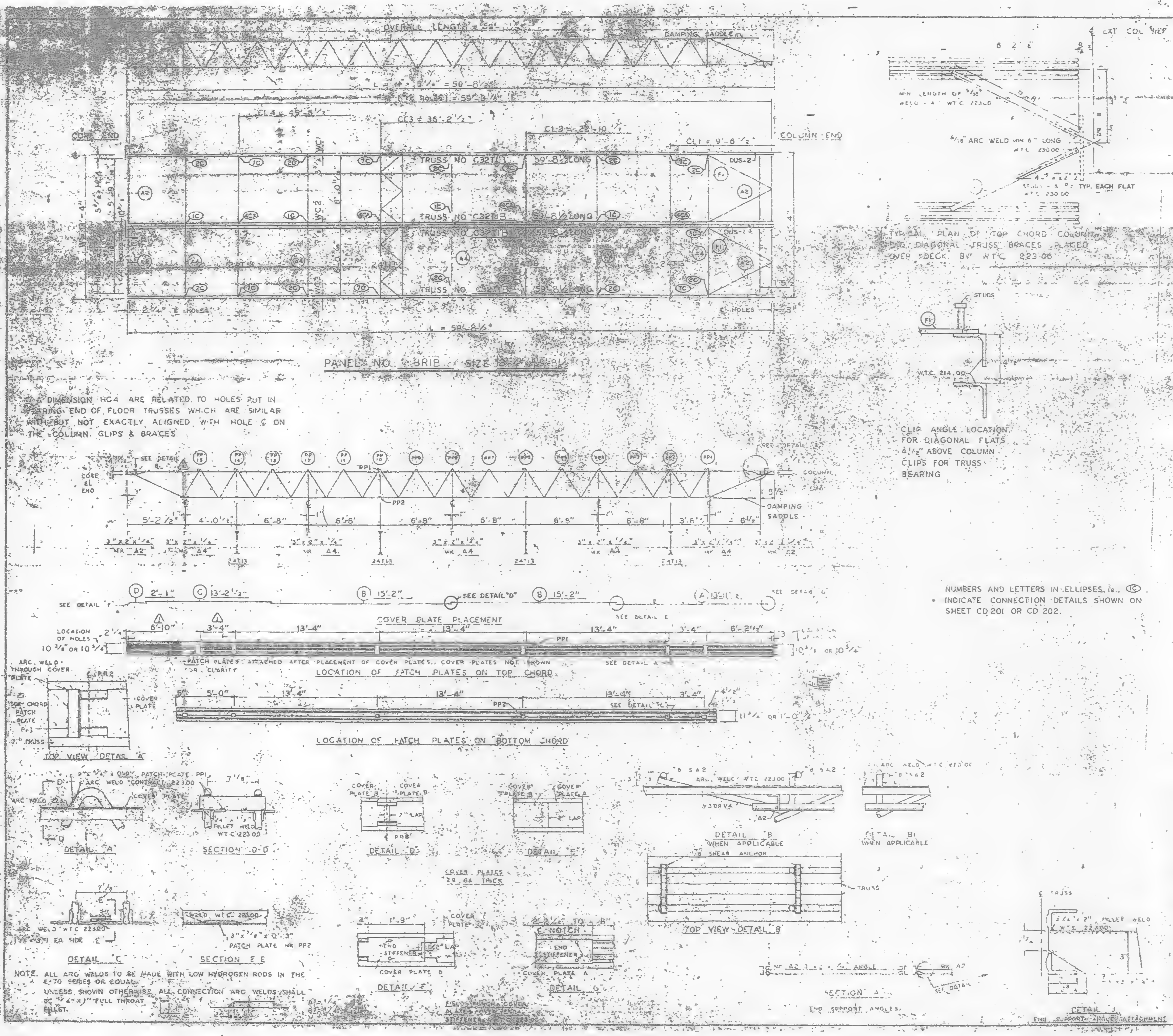
NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	[illegible]
1	7-15-68	GENERAL	[illegible]

2 REF DRWGS
[illegible] 10-15-68
[illegible] 7-24-68
[illegible] 10-15-68
[illegible] 1-6-69
[illegible]
[illegible] 7-24-68
[illegible] 7-24-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible] 48 (NORTH & SOUTH) [illegible] 69 (NORTH)
PANEL 8R1 [illegible] 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-[illegible]

LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible]
APPROVED FOR FABRICATION James White DATE 1/2/70
DRAWN BY [illegible] DATE FEB. 24, 1968
CHECKED BY [illegible] DATE FEB. 24, 1968
SHEET NO. 8R1A



∅ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie.. ⓘ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x3" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF DRWG
FLOOR TRUSSES	T18	4	C32T18 - 59'-8 1/2"	ST201B
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST218
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP1	12	2"x 1/4"x 0'-9"	ST 400
	PP2	12	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	12	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	CL	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"φ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-5-69	AS NOTED	BJ

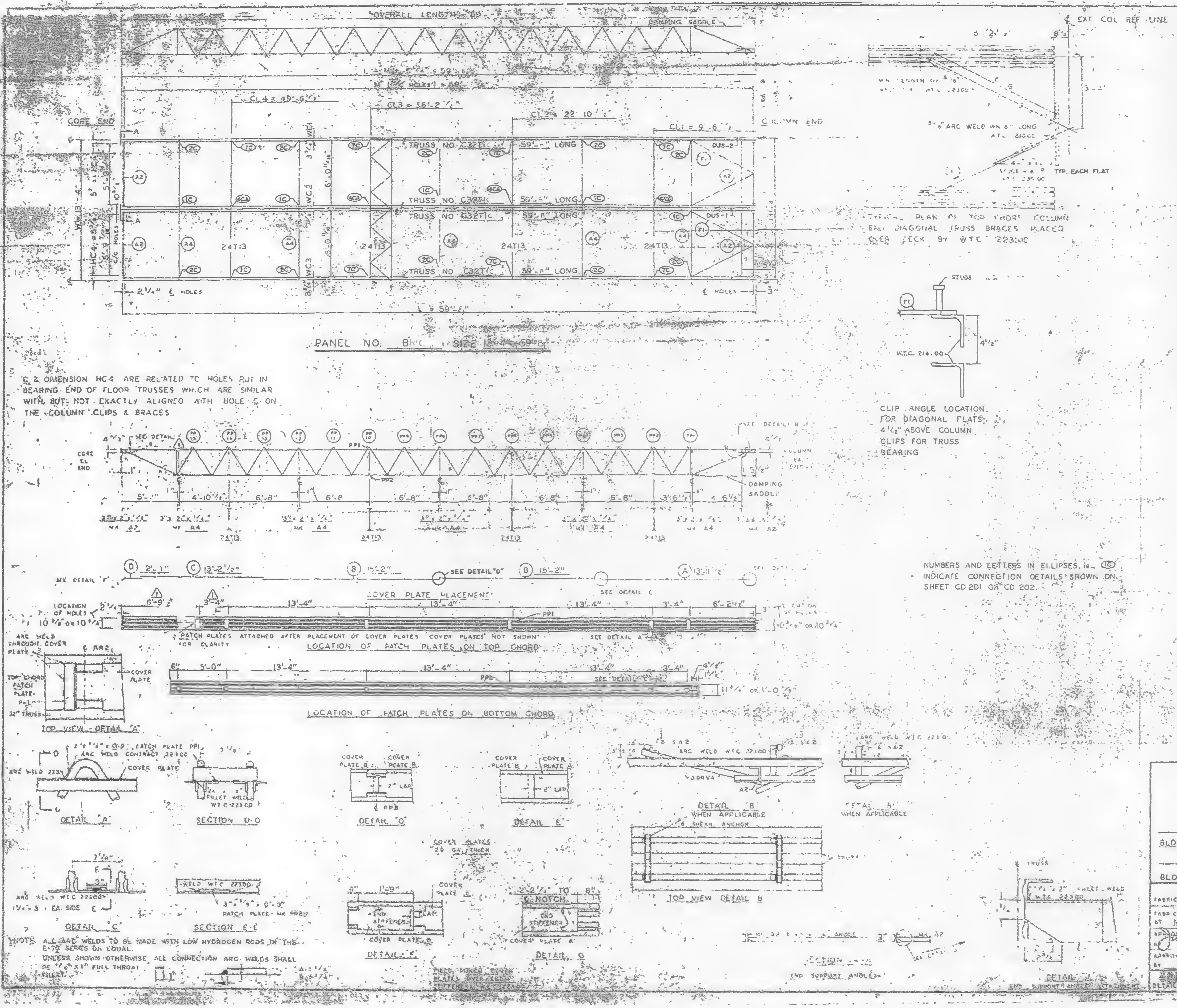
⚠1 REF. DRWG

7-AB4-2	10-15-68
7-AB4-15,16 & 39	7-22-68
7-AB4-42	10-15-68
SA 124	1-6-68
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (N)
PANEL 4" x 59'-8 1/2"
BLDG. B FLOORS 83-91, 93-106 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-6 PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 1/2/70
DRAWN BY DATE 10-22-
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE
IN CHARGE OF
DETAILED BY
FABRICATION CONT. NO. WTC 221
BRIB


OVERALL LENGTH 59'
DAMPING SADDLE
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-6"
CORE END
COLUMN END
TRUSS NO. C32T1C 59'-8" LONG
24T13
WC1
WC2
WC3
DUS-2
DUS-1
PANEL NO. BR1C SIZE 13'-4" x 59'-8"
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
EXT COL REF LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

E & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ⅛" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T.C	4	C32T1C - 59'-8"	ST201C
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3½"x[illegible] ANGLE	[illegible]	[illegible]	[illegible] x 5'-1⅝"	ST403
	[illegible]	[illegible]	[illegible] x 13'-3	ST403
DIAGONAL FLATS	[illegible]	4	[illegible] x 6'-8"	ST402
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	[illegible] x 0'-3"	ST400
COVER PLATES	A	2	9" x 0.135" x 0'-11½"	ST303
	B	4	9" x 0.135" x 15'-2"	ST303
	C	2	9" x 0.135" x 13'-2½"	ST303
	D	2	9" x 0.135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-5	ST 400
DAMPING SADDLE	DUS 1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS 2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

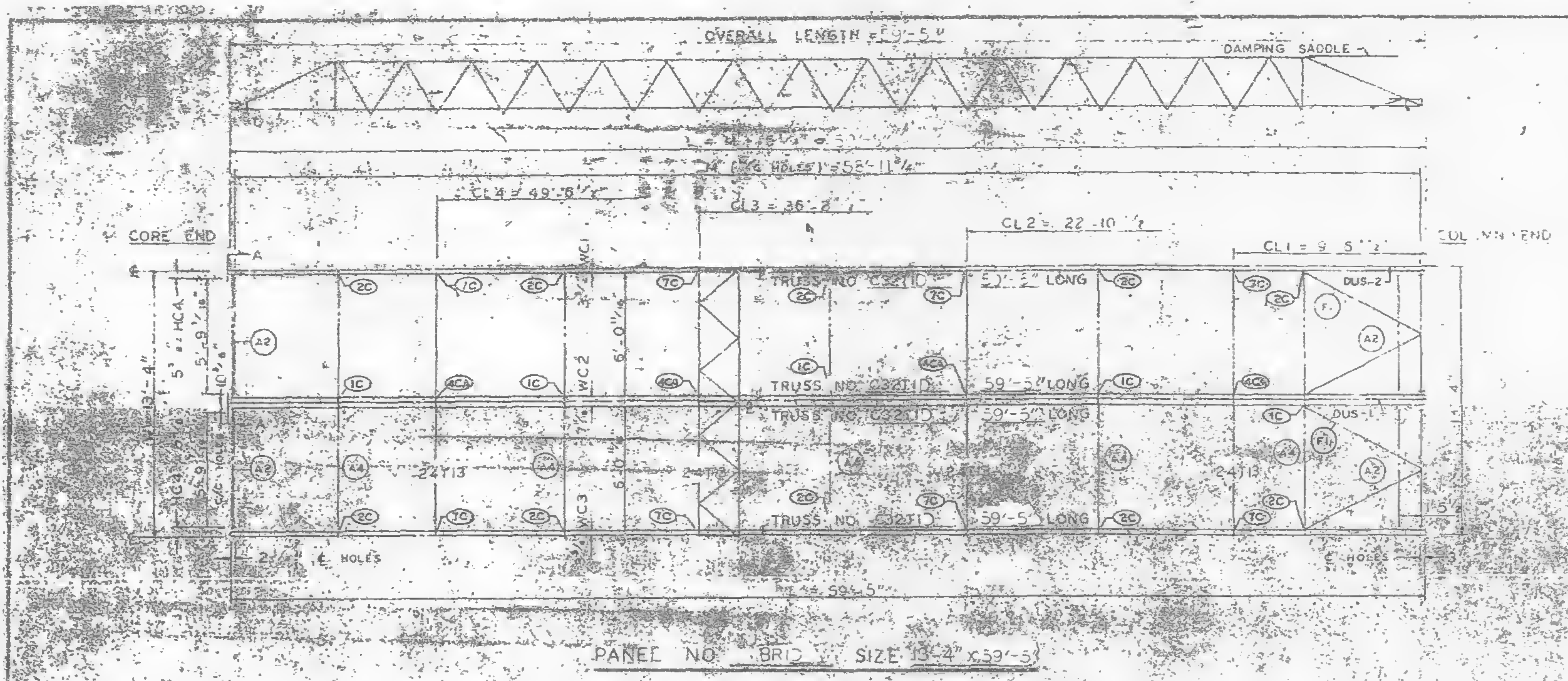
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	R.J.

1 REF DRWG
7-AB4-3 10-13-68
7-AB4-15-16 7-22-68
7-AB4-42 10-8-68
SA-124 1-6-69
7-AB3-2 1-3-69
7-AB1-2 9-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

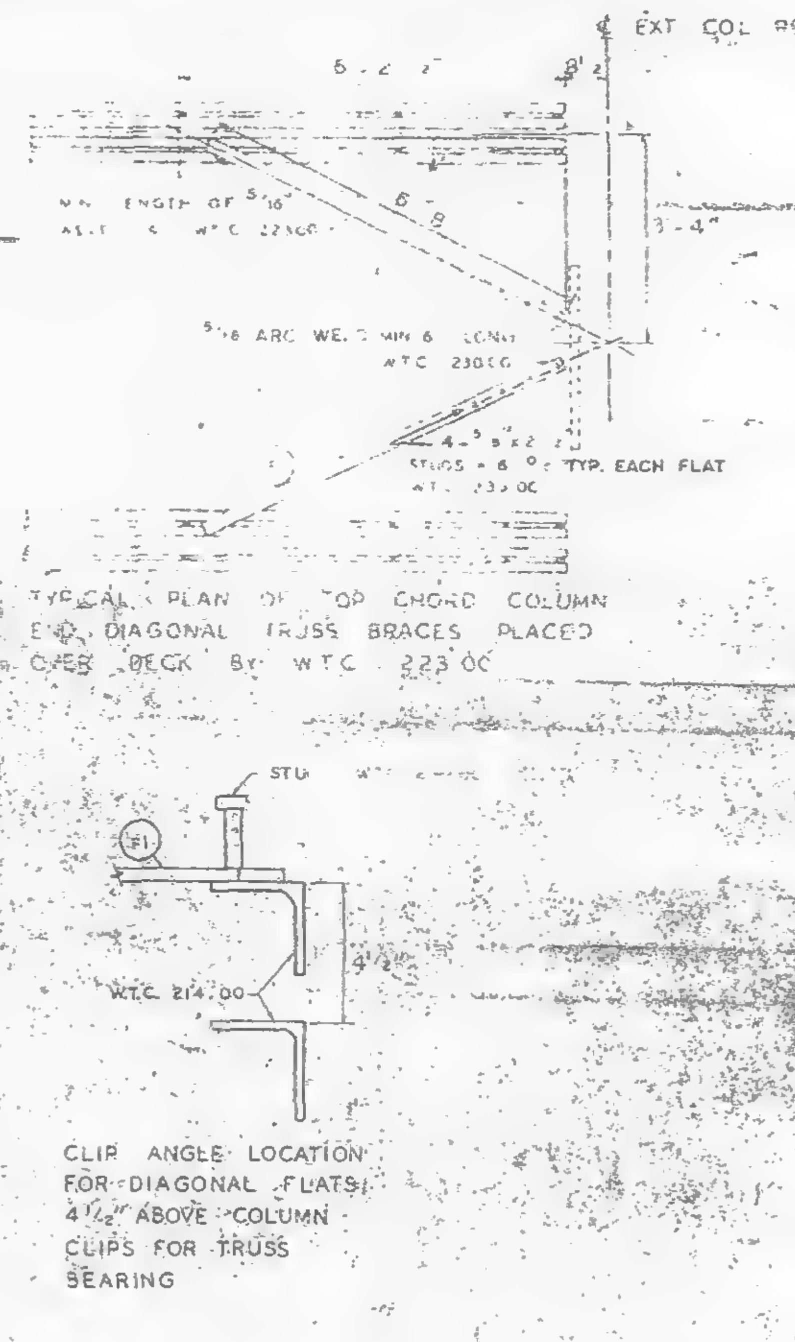
BLDG A FLOORS 49-54, 56, 66, 68-74, [illegible]
PANEL SPIL [illegible] 4" x [illegible]
BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 [illegible] PLATE
APPROVED FOR FABRICATION BY James White P.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE 10-22-69
IN CHARGE OF [illegible]
DETAILED BY [illegible]
FABRICATION CONT. NO. N.Y.C. 221
SHEET NO. FB BRIC



PANEL NO. BRID SIZE 13'-4" x 59'-5"

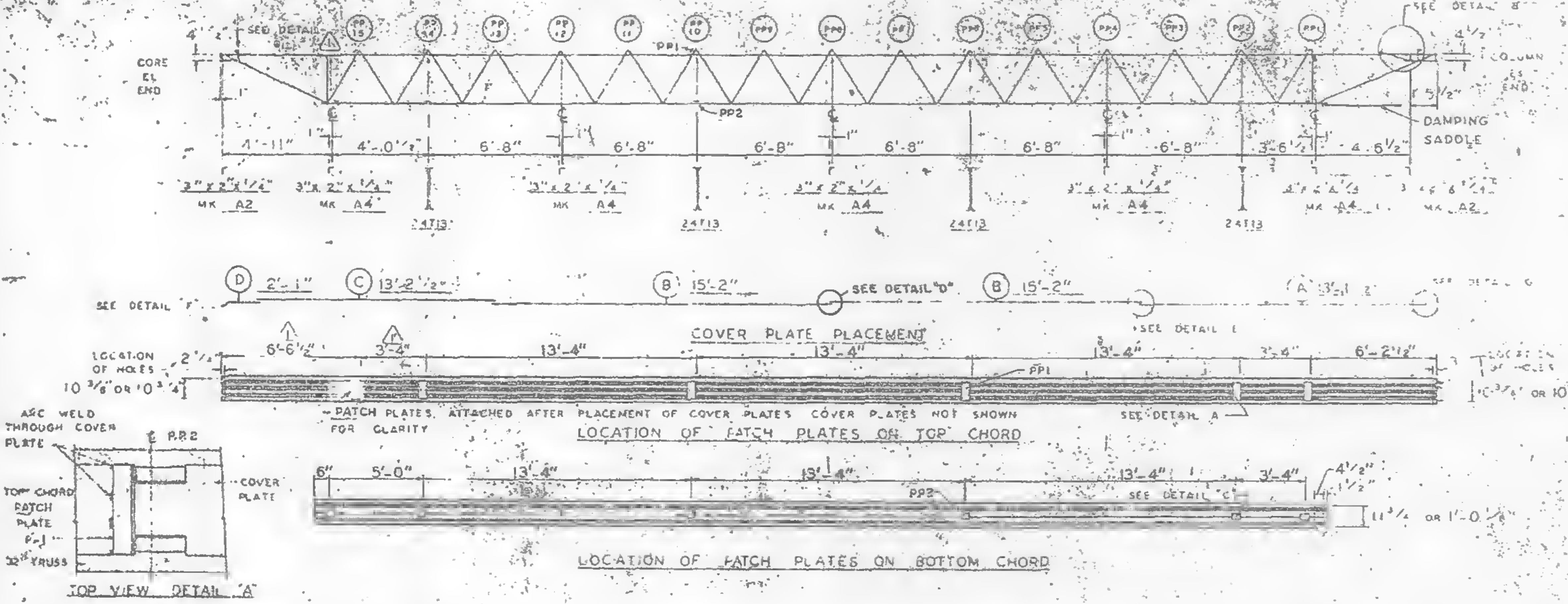
C & DIMENSION HC-4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES


EXT. COL. REF. LINE
5/16 ARC WELD MIN 6" LONG W.T.C. 23000
4-3/4" x 2" STUDS x 6" TYP. EACH FLAT W.T.C. 23000
STUD
F1
W.T.C. 214.00

TYPICAL PLAN OF TOP CHORD COLUMN END. DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

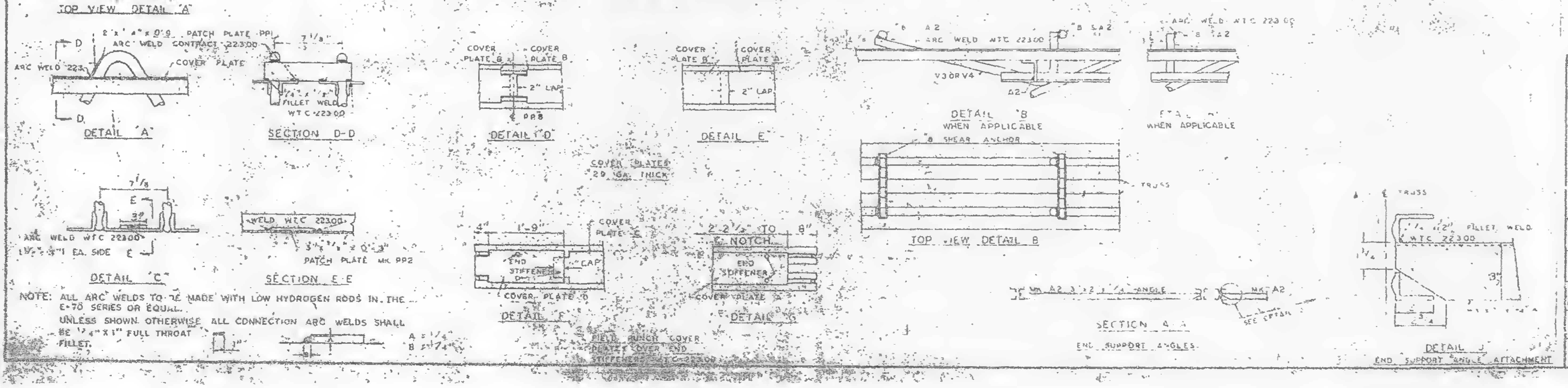
REQUIRED MATERIAL PER PANEL.				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1D	4	C32T1D - 59'-5"	ST 201D
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3"x 2"x 1/4" ANGLE	A2	4	3"x 2"x 1/4"x 5'-11 5/16"	ST 403
	A4	5	3"x 2"x 1/4 x 13'-3"	ST 403
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x 1/4" x 0'-9"	ST 400
	PP2	12	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	2	9"x .0135"x 13'-11 1/2"	ST 303
	B	4	9"x .0135"x 15'-2"	ST 303
	C	2	9"x .0135"x 13'-2 1/2"	ST 303
	D	2	9"x .0135"x 2'-1"	ST 303
ANGLE CLIPS	CE	16	2"x 1 1/2"x 1/4"x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 296
	DUS-2	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 296
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400



LOCATION OF PATCH PLATES ON TOP CHORD

LOCATION OF PATCH PLATES ON BOTTOM CHORD

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.



NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUIV.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

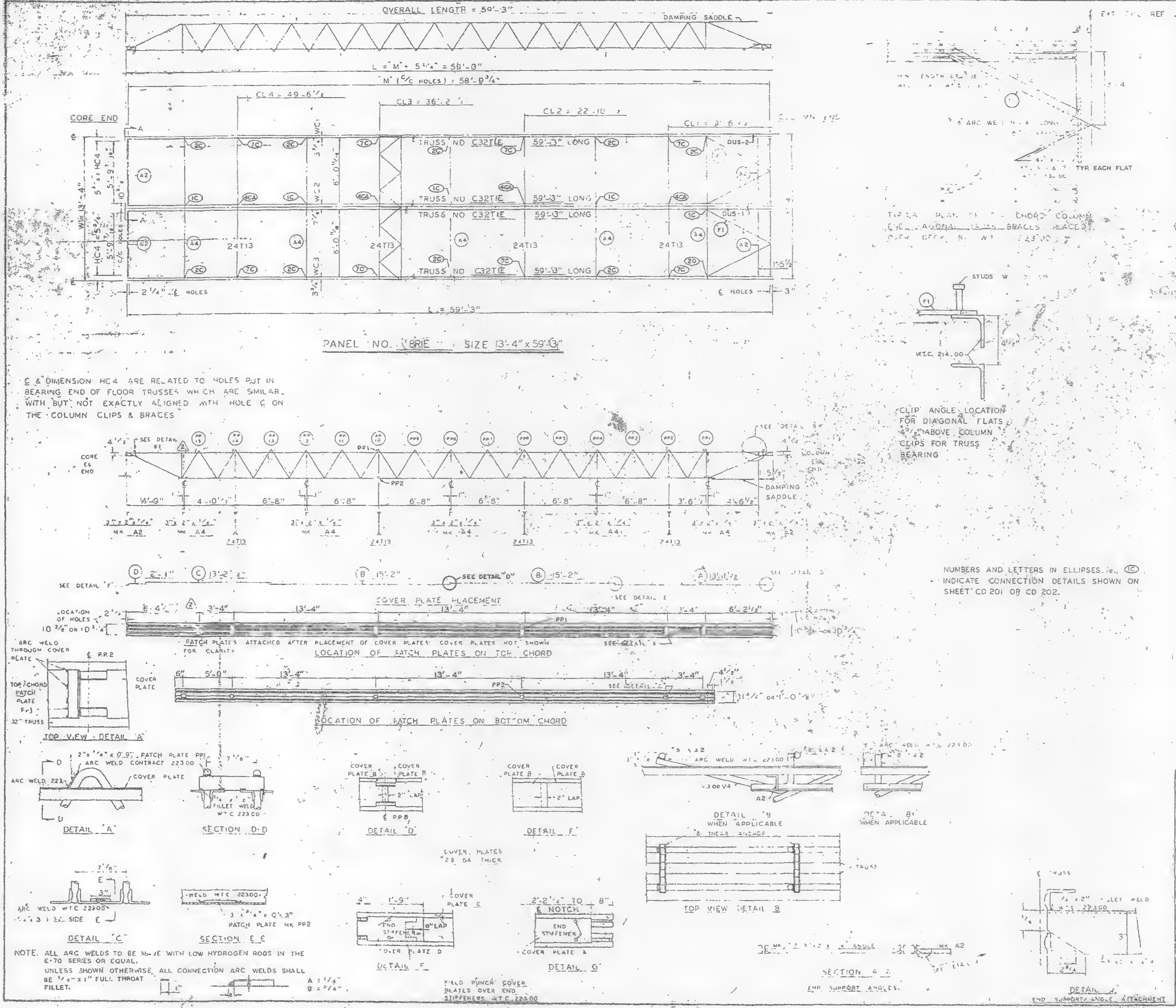
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	RJP

REF DRWG	
7-AB4-3,3,1	10-15-68
7-AB4 15,16 & 39	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 (1)
PANEL 13'-4" x 59'-5"
BLDG. B FLOORS 81-82 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-6 PLATE
APPROVED FOR FABRICATION BY James W. [illegible] P.O.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible]
IN CHARGE OF [illegible]
FABRICATION CONT. NO. W.T.C. 221
DETAILED BY A.C. WEBER
FD-BRID



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 3/4" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TE	4	C32TE 59'-3"	ST201B
BRIDGING TRUSSES	T13	4	24T13 - 13'-4	BT213
3 x 2 x 1/4 ANGLE	A2	4	3 x 2 x 1/4 x 5'-9	ST403
	A4	5	3 x 2 x 1/4 x 13'-3	ST403
DIAGONAL FLATS	[illegible]	[illegible]	[illegible] x 5'-8"	ST402
PATCH PLATES	PP1	12	2 x 1/4 x 0'-9	ST400
	PP2	12	3 x 3/4 x 0'-3"	ST400
COVER PLATES	A	2	9" x 0.35" x 13'-1 1/2	ST303
	B	4	9" x 0.35 x 15'-2	ST303
	C	2	9" x .03 x 13'-2 1/2	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#5 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	R.J.P.
1	7-15-68	GENERAL	T.M.C.

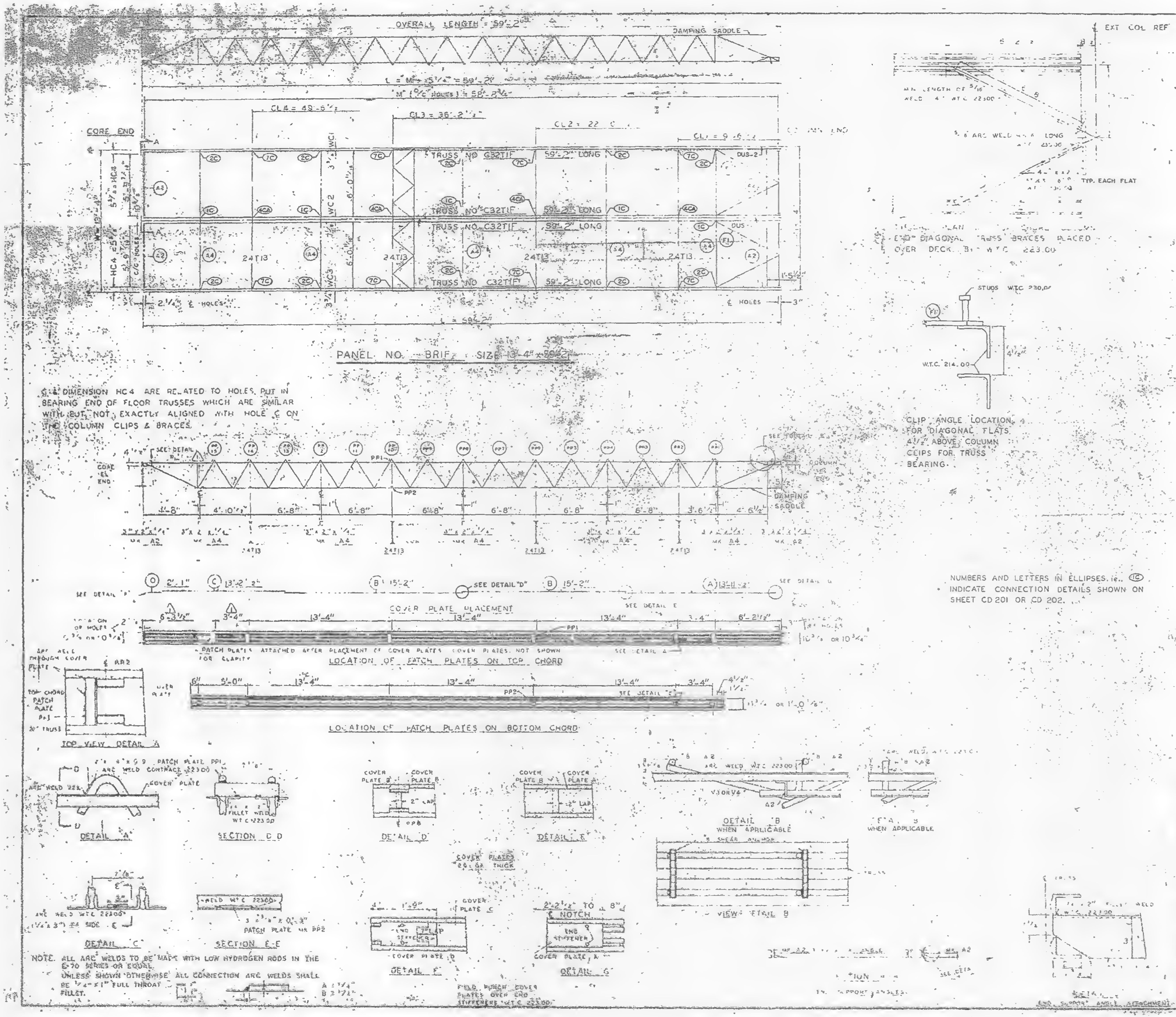
2 REF DRWG	
7-AB6-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-24	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-31 (SOUTH)
PANEL ERIE " x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-6 PLATS	
APPROVED FOR FABRICATION James White FOR PNYA	DATE 1/2/70	DRAWN BY [illegible] DATE FEB. 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R.PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED FOR [illegible]		FABRICATION CONT NO WTC 221	SHEET NO FP-ERIE


OVERALL LENGTH = 59'-2"
DAMPING SADDLE
CORE END
CL4 = 48'-6½"
CL3 = 36'-2½"
CL2 = 22'
CL1 = 9'-6½"
TRUSS NO C32T1F 59'-2" LONG
24T13
WC1
WC2
WC3
HC4
DUS-2
DUS-1
PANEL NO. BRIF SIZE 13'-4" x 59'-2"
EXT COL REF LINE
TYP. EACH FLAT
STUDS W.T.C 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
END DIAGONAL TRUSS BRACES PLACED OVER DECK. BY W.T.C. 223.00
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
WHEN APPLICABLE
VIEW DETAIL B
COVER PLATES 26 GA THICK
DETAIL C
SECTION E-E
3 ⅜" x 0'-3" PATCH PLATE MK PP2
DETAIL F
DETAIL G
END STIFFENER
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

Ç & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Ç ON THE COLUMN CLIPS & BRACES.

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1F	4	C32T1F - 59'-2"	ST201
BRIDGING TRUSSES	T13	4	24T13 13'-3"	ST 218
[illegible] ANGLE	A2	4	[illegible]	[illegible]303
	A4	5	[illegible] 3'-3	[illegible]303
DIAGONAL FLATS	F	4	[illegible] x 6'-8	[illegible] 402
PATCH PLATES	PP	12	[illegible] x 0'-9"	[illegible] 400
	PP2	12	[illegible] x 0'-3"	[illegible] 400
COVER PLATES	A	2	5" x .0135" x 13'-11½	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	5" x .035" x 13'-2½	ST303
	D	2	9" x .035 x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½ x ⅜" x 3'-6⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 8½"	ST 400
	P2	4	4½" x .30" x 0'-0"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400

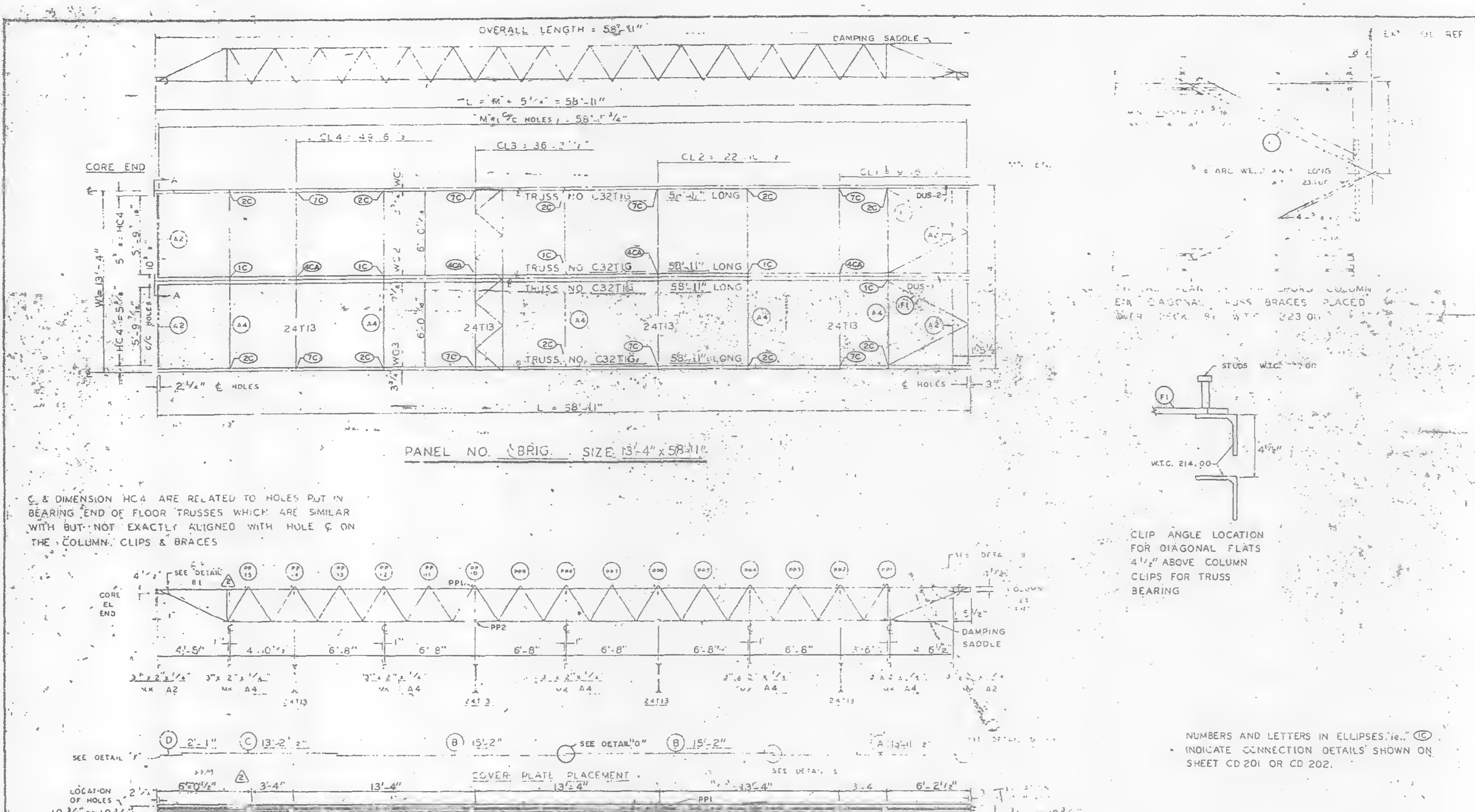
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	R.J.

REF DRWG
- 7-AB4-3 10-15-68
- 7-AB4-15-16 7-22-68
- 7-AB4-A2 10-15-68
- SA-24 1-6-69
- 7-AB3-2 1-3-68
- 7-AB1-2 7-22-68
- 7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 47-48, 70-71(N) & 47-48(S)
PANEL BRIF 4 59'-2"
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-6 PLATE	
APPROVED FOR FABRICATION BY James White	DATE 1/2/70	DRAWN BY [illegible] DATE [illegible]	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO.	DATE	CHECKED BY [illegible] DATE [illegible] 22	IN CHARGE OF [illegible]
DETAILED BY [illegible]		FABRICATION CONT NO W.T.C. 221	SHEET NO BRIF



PANEL NO. BRIG. SIZE 13'-4" x 58'-11"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

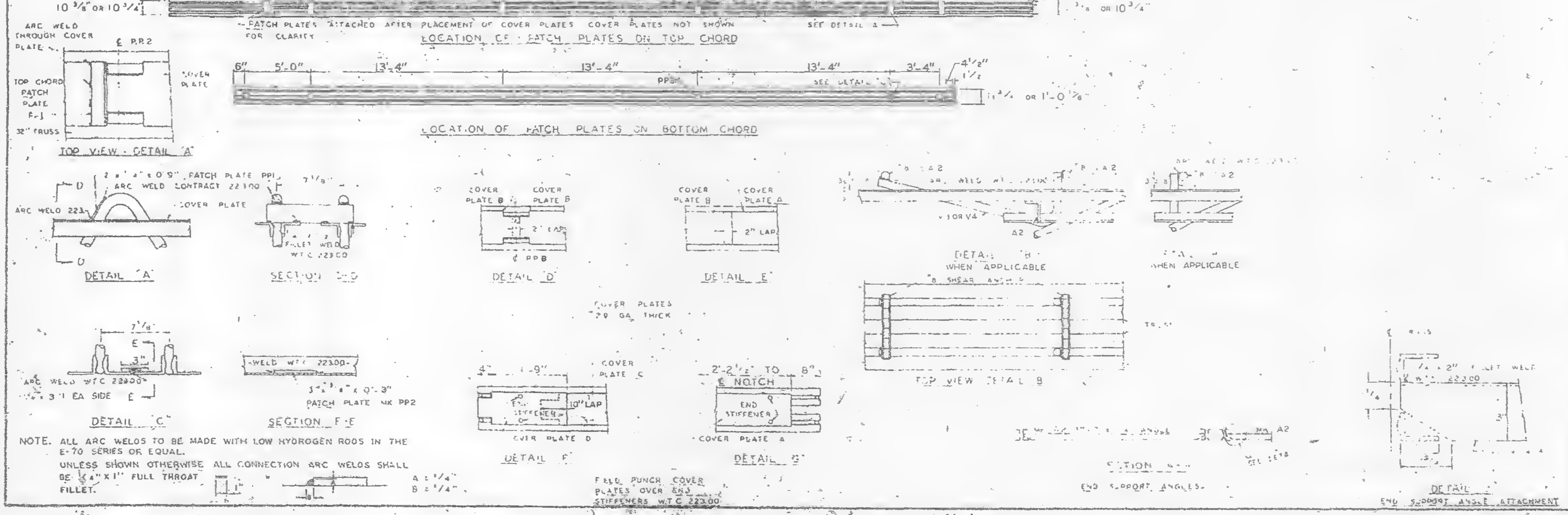
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES ie. ⓘ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T.G	4	C32T1G - 58'-11"	ST201G
[illegible]	T13	4	24T13 - 13'-4	ST212
[illegible] ANGLE	A2	[illegible]	[illegible]	ST403
	A4	5	[illegible]	ST403
DIAGONAL FLATS	[illegible]	4	[illegible] x 6'-8"	ST402
PATCH PLATES	PP1	12	2 x [illegible] x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303,
	B	4	9" x .0135" x 15'-2	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠2	6-5-69	AS NOTED	R.J.P.
⚠1	7-15-68	GENERAL	T.M.C.

⚠2 REF DRWG
- 7-AB4-3 — 10-15-69
- 7-AB4-15 & 16 — 7-22-69
- 7-AB4-42 — 10-15-69
- SA-1024 — 1-6-69
- 7-AB3-2 — 1-3-68
- 7-AB1-2 — 7-22-68
- 7-AB2-8 — 7-22-68

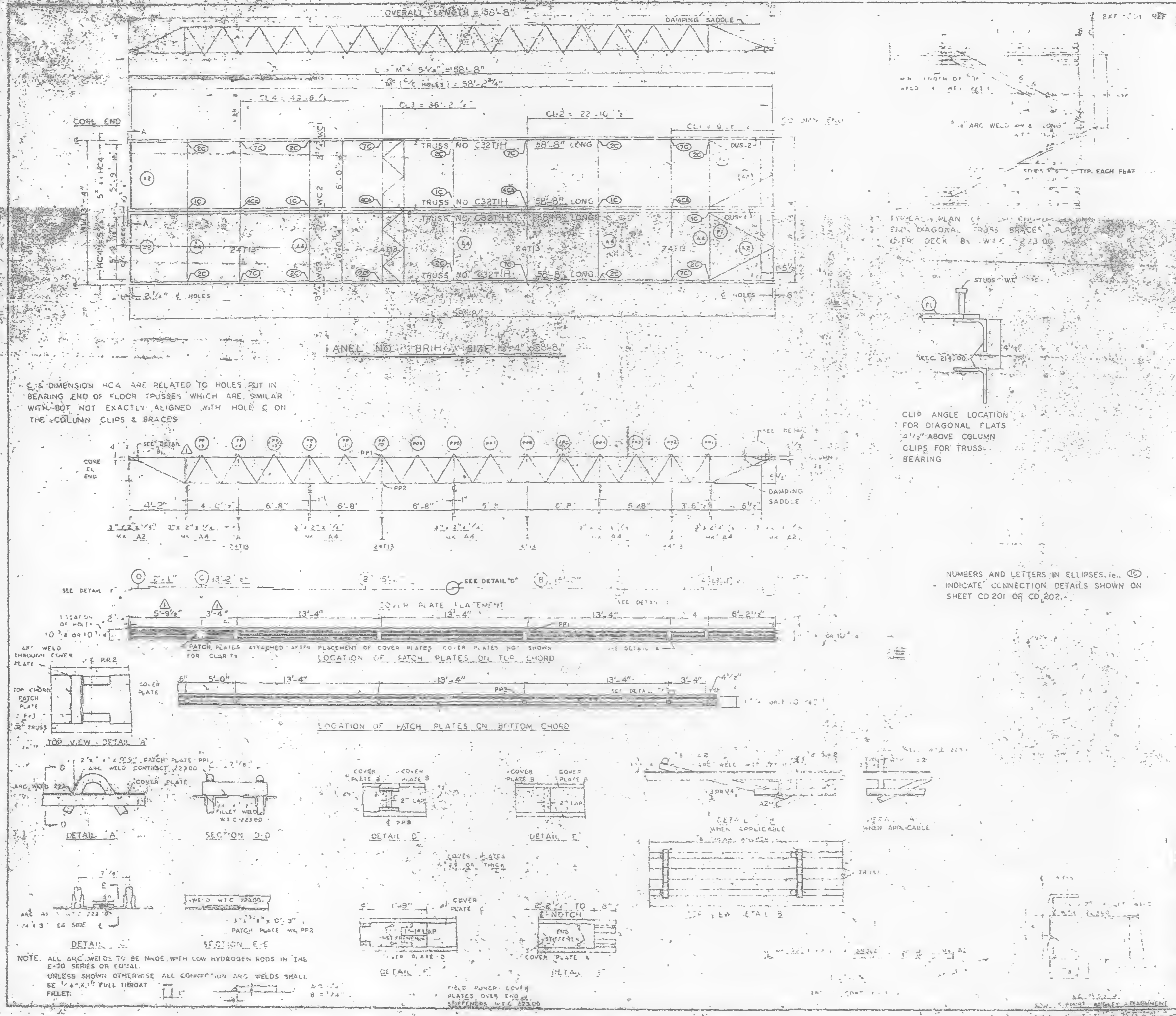


NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11, 39 (NORTH) 39-40 (SOUTH)
PANEL NO. [illegible] x 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST) ⚠2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3 6 PLATE
APPROVED FOR FABRICATION James White P.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE FEB. 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.B. PAIS DATE FEB. 24, 1968
IN CHARGE OF PROG. DEV.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP BRIG



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⑦C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	4	C32T1H 58'-...	ST 20,11
[illegible]	T13	4	[illegible]	ST 213
3"x2"x¼" ANGLE	A2	4	[illegible]	ST 403
	A4	5	3" x 2" x ¼" x 2'-3"	ST 403
[illegible] FLATS	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	12	2" x ... x 0'-9"	ST 400
	PP2	12	... x ⅜" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .035" x 13'-2½"	ST 303
	D	2	9" x .035" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
8" SHEAR ANCHOR	SA2	6	8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CS1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .39" x 0'-0"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-5-69	AS NOTED	R.J.P.

⚠1 REF DRWG

7-A94-3	10-15-68
7-A94-15,16	7-22-68
7-A94-42	10-15-68
SA 24	1-6-69
7-A93-4	1-3-68
7-A81-2	7-22-68
7-A92-8	7-22-68

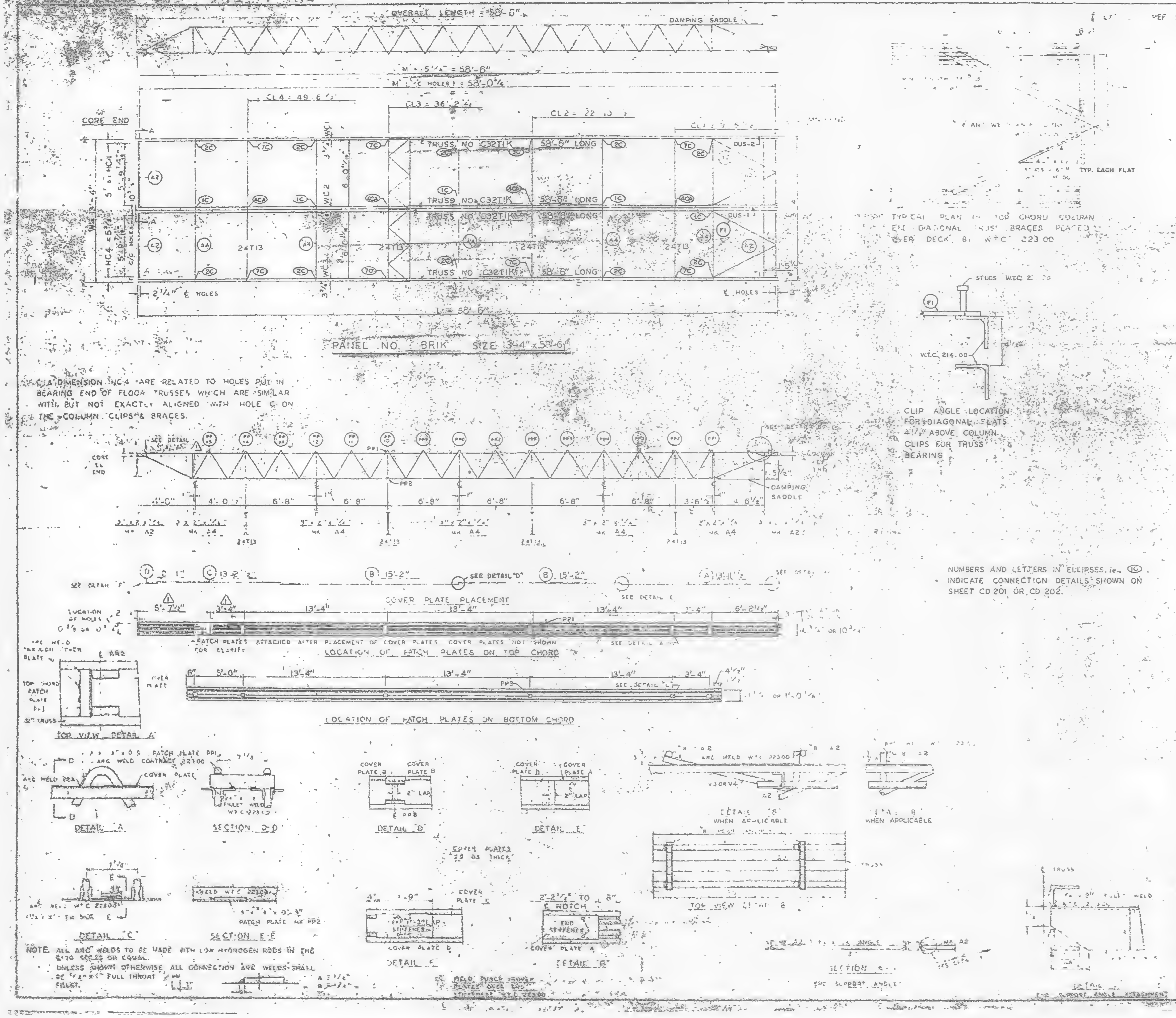
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80 (W)
PANEL BRIH 13'-4" x 58'-8"
BLDG. B FLOORS 79-80 (WEST) ⚠1

FABRICATED BY LACLEDE STEEL COMPANY
FABR. AT MADISON, ILLINOIS

APPROVED FOR FABRICATION James White	DATE 1/2/70	DRAWN BY [illegible] DATE 10-22-67	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.H. CHURA DATE 10-22-67	IN CHARGE OF
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET BRIH

DESIGN DRAWING NO.
PLATE



TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK, W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NOTE: DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⑩ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PC.	SIZE	
FLOOR TRUSSES	T1K	4	2T x 58'-6	ST201A
BRIDGING TRUSSES	T13	4	24T x 13'-3"	ST 218
ANGLE	A2	4	[illegible] x 5'-1"	ST 403
	A4	5	[illegible] x 13'-3	ST 403
DIAGONAL FLATS	-	4	[illegible] x 6'-8	402
PATCH PLATES	PP1	12	[illegible] x 0'-9"	ST 400
	PP2	12	[illegible] x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST303
	B	4	9" x .0135 x 15'-2"	ST303
	C	2	9" x .035" x 13'-2½	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	6	#6 REBAR x 0'-5	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3½" x ⅜" x 8½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

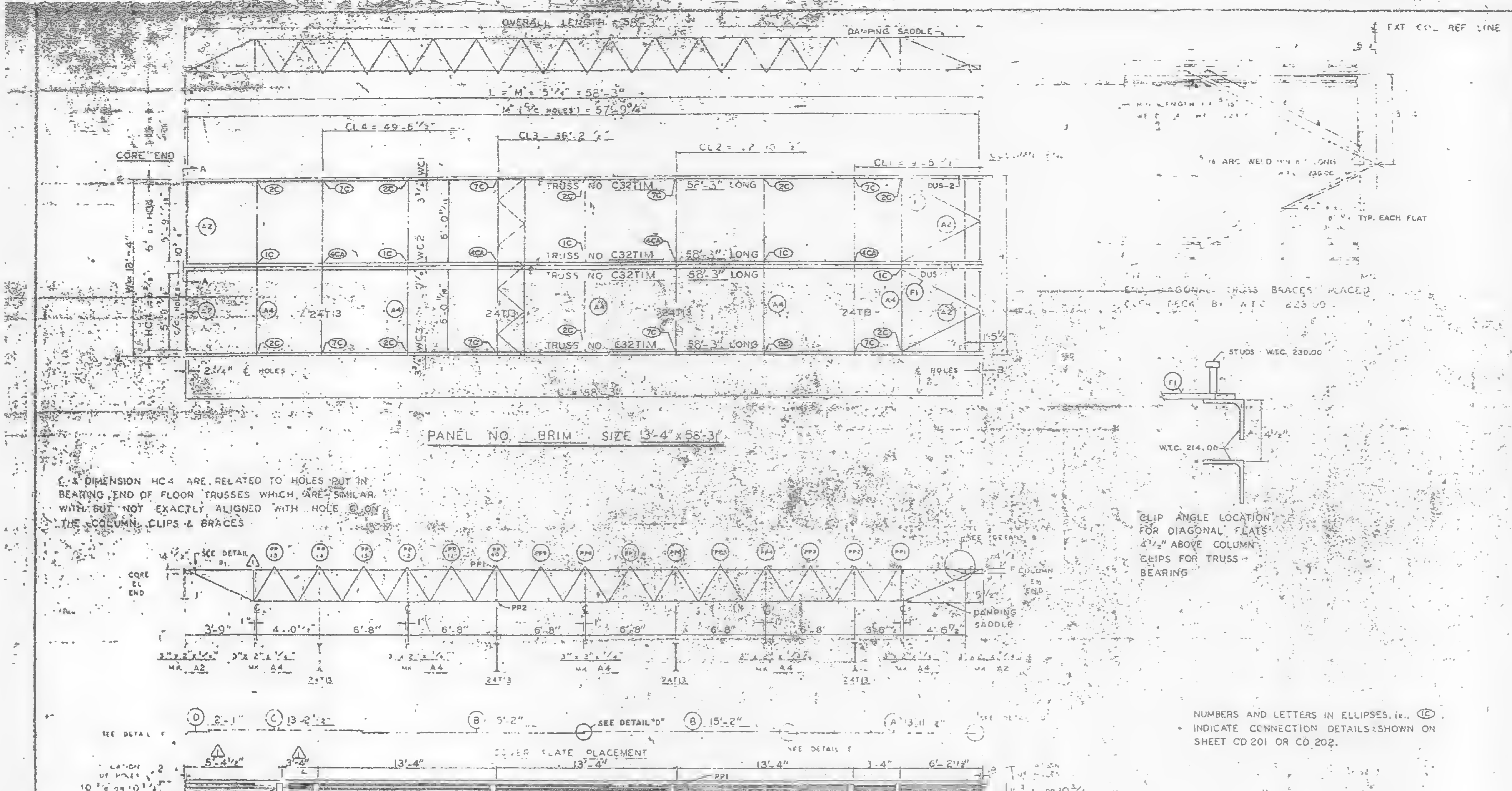
NO.	DATE	REVISION	BY
⚠	6-5-69	AS NOTED	R.J.

REF DRWG
7-AB4-2 10-15-68
AB4-15,16 7-22-68
⚠ AB-42 10-15-68
SA-4 1-6-69
7-AB3-2 1-3-68
7-AB-2 7-22-68
7-AB2-B 7-22-66

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 46(N) + 45-46(C)
PANEL BRIK
BLDG B FLOOR 46 (EAST & WEST) 45 (EAST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3-6 PLATE
APPROVED FOR FABRICATION James White FOR P.N.Y.A. DATE 1/2/70
DATE
APPROVED FOR FABRICATION BY DATE
CHECKED BY DATE
IN CHARGE OF
FABRICATION CONT. NO. 221
SHEET NO. BRIK
DETAILED BY

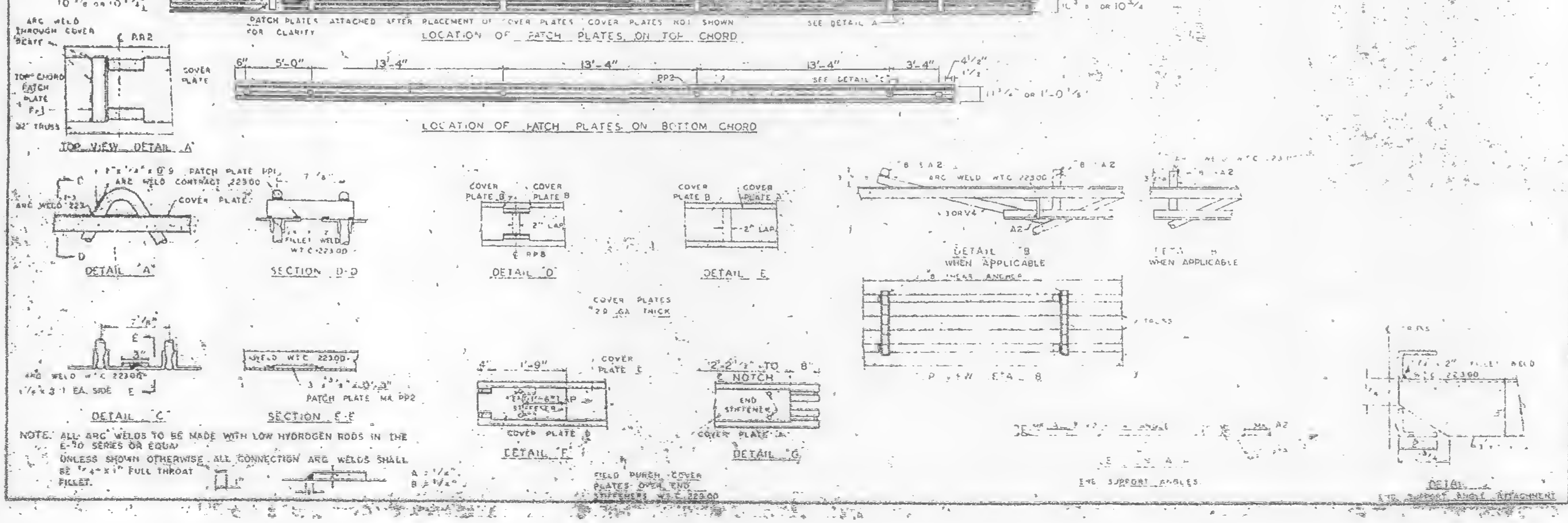


£ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE £ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (IC) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible]	4	C32TIM-5[illegible]	ST201
BRIDGING TRUSSES	T3	4	24T3-13-3	ST213
3 x 2 x 1/4 ANGLE	A2	6	[illegible]	ST403
	A4	5	[illegible]	ST403
DIAGONAL FLATS	[illegible]	4	[illegible] x 6'-8"	ST402
PATCH PLATES	PP1	12	[illegible] x 0'-9"	ST 400
	PP2	12	[illegible] x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.35" x 13'-11 1/2"	ST303
	B	4	9" x 0.35" x 15'-2"	ST303
	C	2	9" x 0.35" x 13'-2 1/2"	ST303
	D	2	9" x 0.35" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	6	4 1/2" x .30" x 0'-0"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400


COVER PLATE PLACEMENT
SEE DETAIL "D"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
COVER PLATES .20 GA. THICK
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
END SUPPORT ANGLES
DETAIL END SUPPORT ANGLE ATTACHMENT

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL

UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 3/4"

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	R.[illegible]

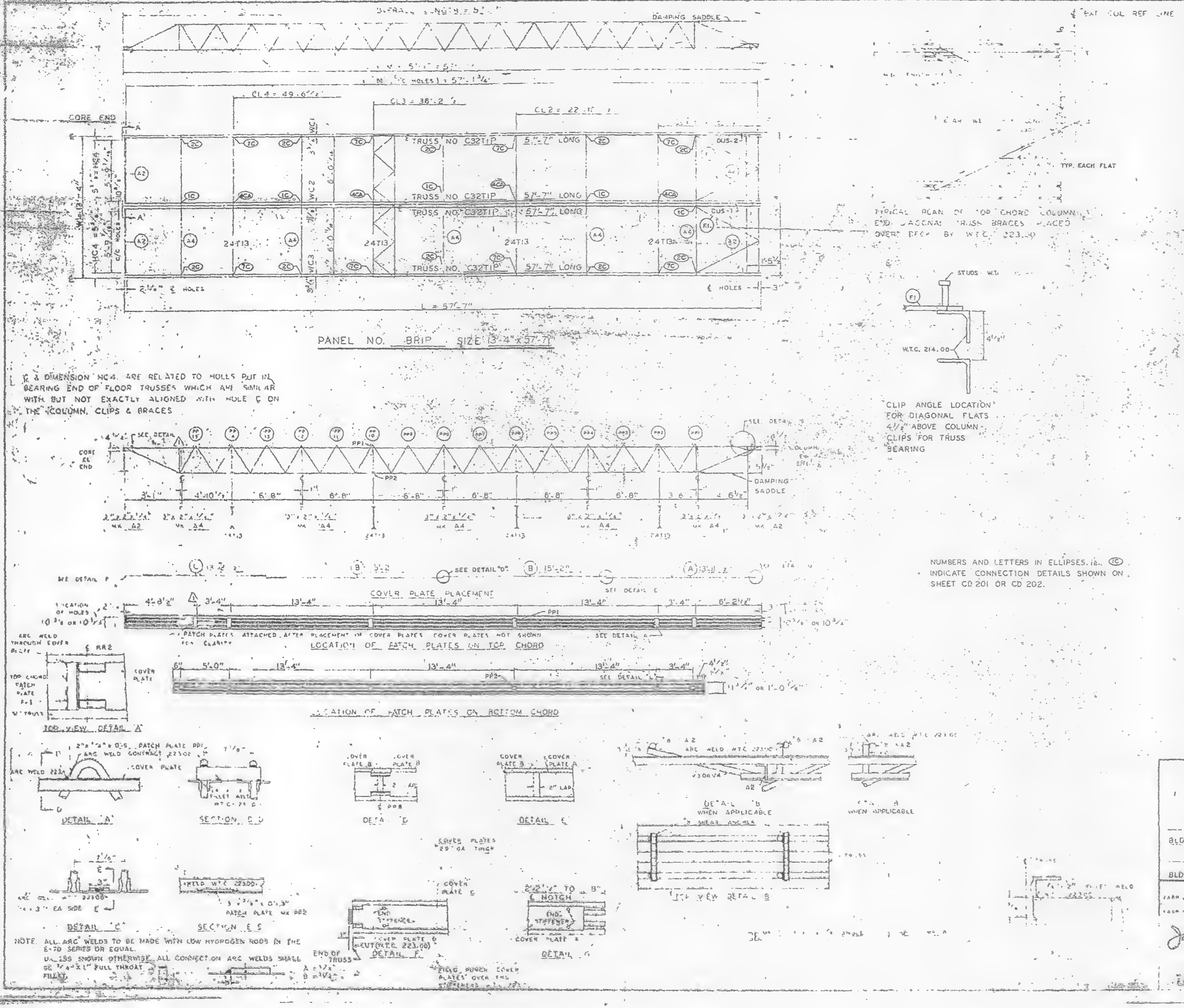
△1 REF. DRWG

7-AB4-3	10-15-68
7-AB4-15,16	7-22-68
7-AB4-42	10-15-68
SA-24	1-6-69
7-AB3-2	[illegible]-13-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL BRIM 13'-4" x 58'-3"
BLDG. B FLOORS 72-73 (WEST) △1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-6[illegible]
APPROVED FOR FABRICATION James White [illegible] DATE [illegible]
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE 10-22-[illegible]
IN CHARGE OF PROD. [illegible]
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. BRIM



℄ & DIMENSION HC4. ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN, CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible]	4	[illegible] 57'	ST201
BRIDGING TRUSSES	T-3	4	24T13 · 13'-3"	ST213
BOTTOM ANGLE	A2		[illegible] 5'-[illegible] 9/16"	ST 303
	A4	5	3 x 2½ x ¼ x 13'-3	ST 303
DIAGONAL FLATS	F1	4	2 x ⅜ x 6'-8	ST 302
PATCH PLATES	PP1	12	2 x ¼ x 0'-9"	ST 400
	PP2	12	3 x ⅜ x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .035" x 13'-2½"	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	5	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½" x ⅜" x 8½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 4'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	[illegible]

REF. DRWG
7-AB4-3 10-15-68
7-AB4-17, 18 7-22-68
7-AB4-42 10-15-68
SA-124 7-6-69
7-AB3-2 11-3-68
7-AB1-2 9-2-69
7-AB2-2 7-22-68

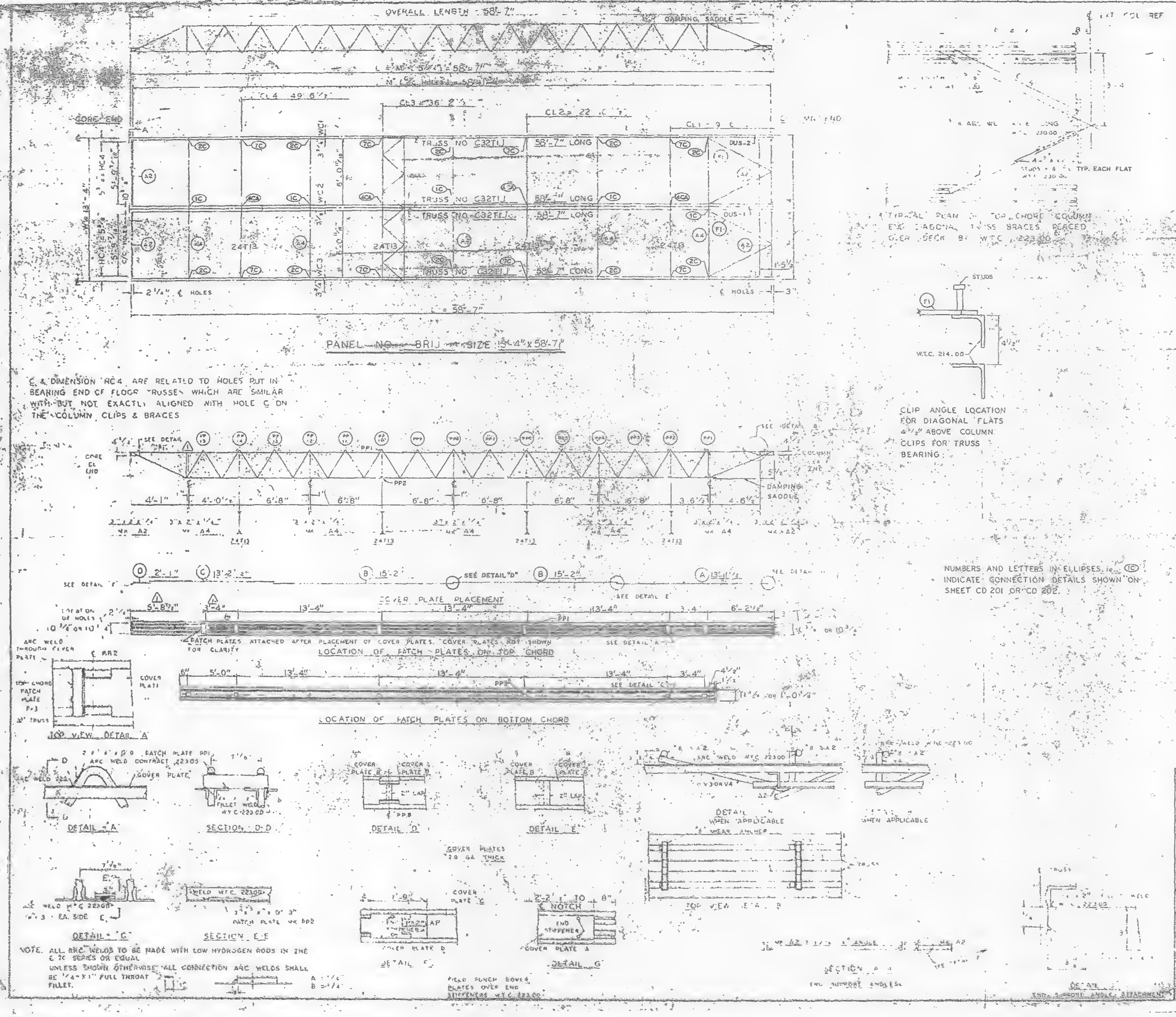
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 74 N
PANEL [illegible] 13'-4" x 57'-7"
BLDG. B FLOORS 74 (WEST)

FABRICATED BY LACLEDE STEEL COMPANY

James White 1/2/70

SHEET
TD-R1C



PANEL NO. 8RIJ SIZE 5'-4" x 58'-7"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

LOCATION OF PATCH PLATES ON TOP CHORD

LOCATION OF PATCH PLATES ON BOTTOM CHORD

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

NUMBERS AND LETTERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL MATERIAL	MK	PCS	SIZE	REF. DRWG
FLOOR TRUSSES	T.	4	C32T. 5-.	ST 201
[illegible] TRUSSES	T-3	4	24T-3 13'-3"	ST 219
[illegible] ANGLE	A2	4	[illegible]	ST 403
	A4	5	[illegible] x 13'-3	ST 403
DIAGONAL FLATS	[illegible]	4	[illegible] 6'-8"	402
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	[illegible] x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135 x 15'-2"	ST303
	C	2	9" x .035" x 13'-2 1/2"	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST290
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST295
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/4" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-0"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

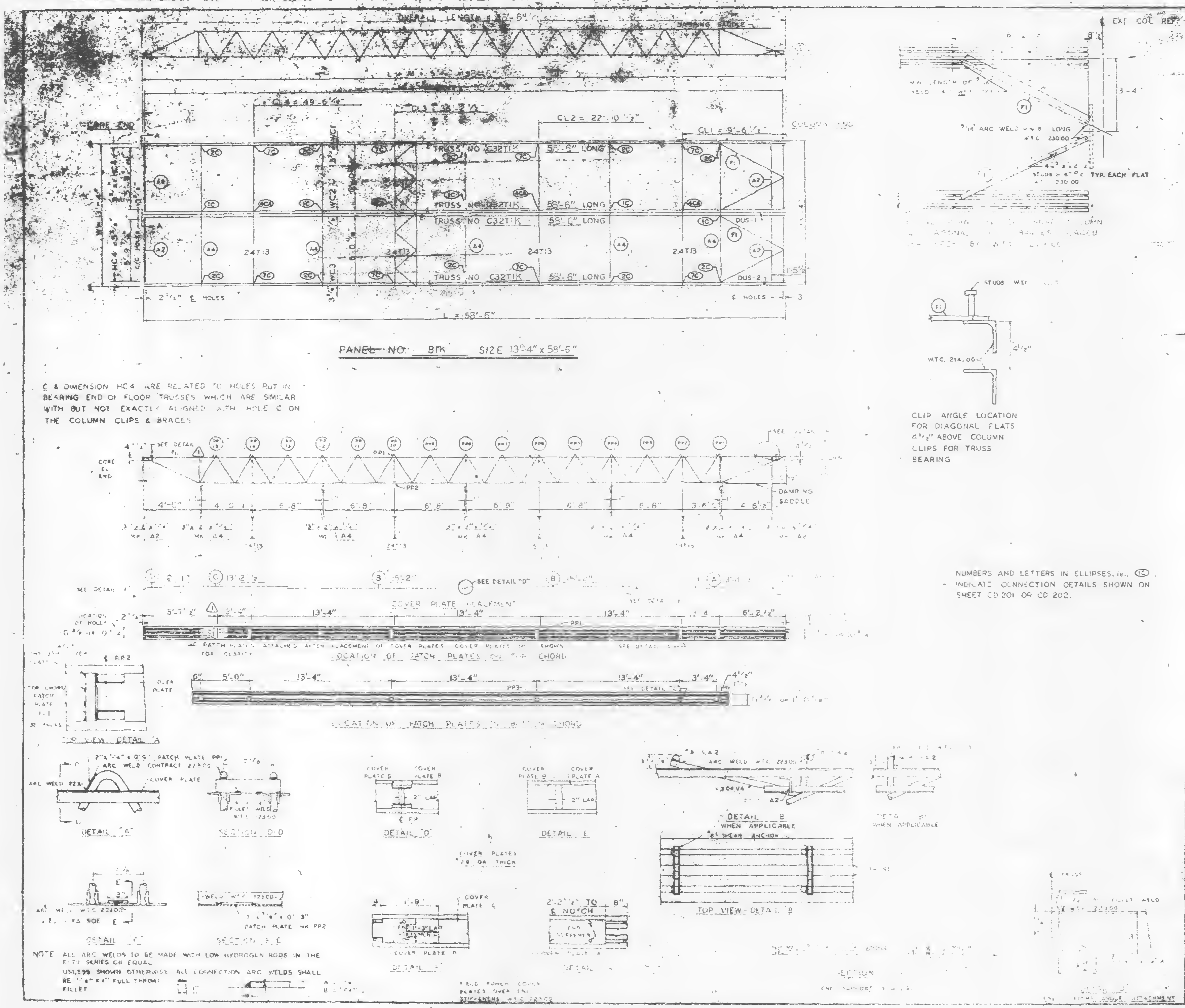
NO.	DATE	REVISION	BY
⚠1	6-5-69	AS NOTED	R.J.P.

REF DRWG
7-A84-3 10-15-68
7-A84-15,16 7-22-68
7-A84-42 10-15-68
SA-124 1-6-69
⚠1 7-A93-2 1-3-69
7-A91-2 7-22-68
7-A92-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 40 (N)
PANEL [illegible] 58'-7"
BLDG. B FLOORS 40 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
James White
DATE 1/2/70
DESIGN DRAWING NO. PLATE
DRAWN BY
DATE [illegible]
APPROVED FOR FABRICATION
FOR FABRICATOR
DATE
CHECKED BY [illegible]
DATE [illegible]
IN CHARGE OF
LACLEDE STEEL CO.
DETAILED BY A. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-81-3



PANEL NO. B1K SIZE 13'-4" x 58'-6"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⑮ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET

REQUIRED [illegible]				
MATERIAL	[illegible]	[illegible]		
FLOOR TRUSSES	T1	4	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	4	[illegible]	[illegible]
3" x 2" x ¼" ANGLE	A2	4	3" x 2" x ¼" [illegible]	[illegible]
	A4	5	3" x 2" x ¼" [illegible]	[illegible]
DIAGONAL FLATS	F1	4	1½" x [illegible] x 8'-6"	[illegible]
PATCH PLATES	PP1	12	2" x ¼" x 0'-8"	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x [illegible]	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	5	#8 REBAR x 0'-8½"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 8½"	ST 400
	P2	4	4½" x .30" x 0'-8"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

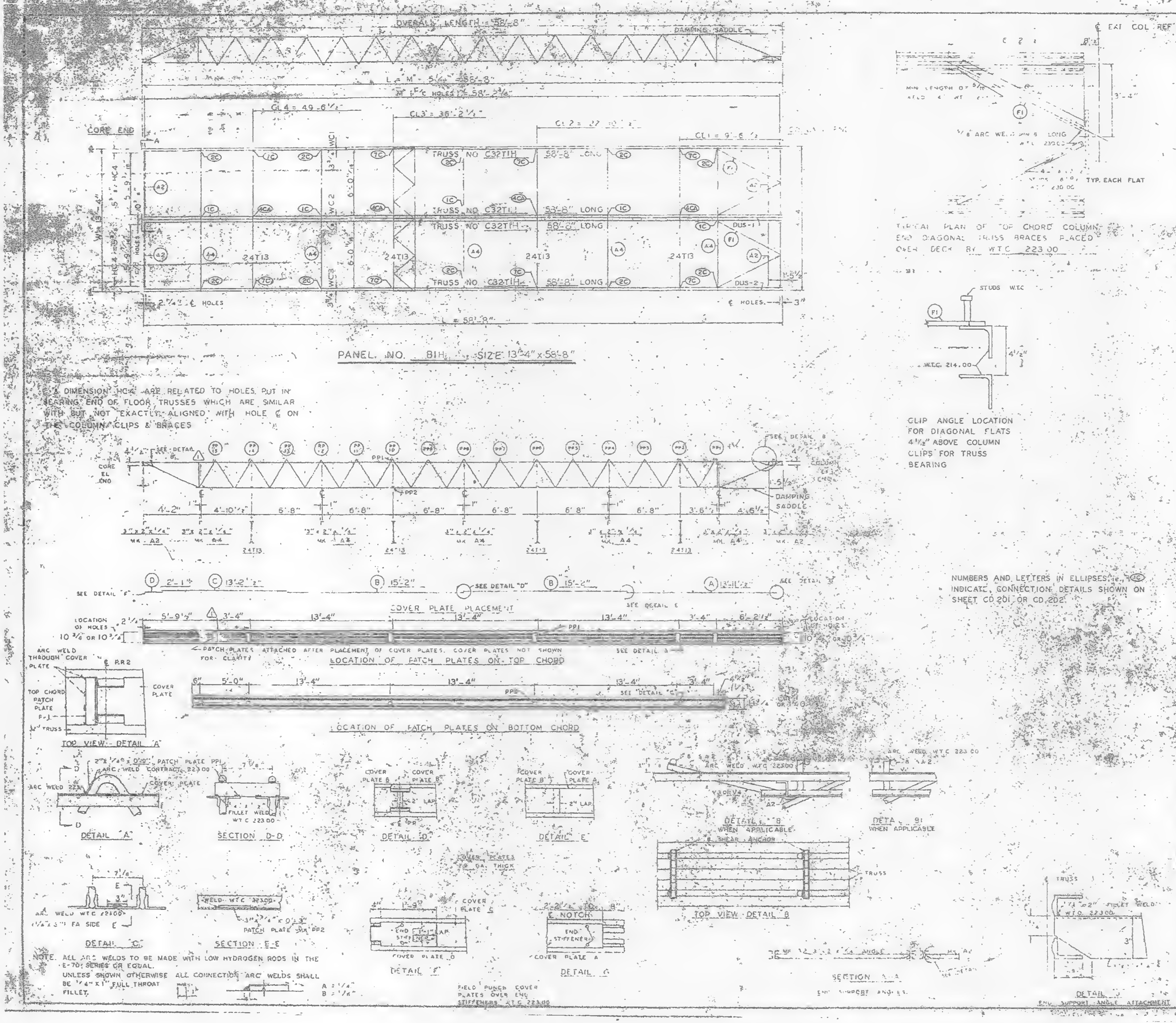
NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	G.C.

REF DRWG
7-A84-3 10-15-68
7-A84-15 & 16 7-22-68
⚠ 7-A84-42 10-15-68
SA-124 1-6-69
7-A83-2 1-3-68
7-A81-2 7-22-66
7-A82-8 7-22-64

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER : N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-46(C) + 46(N)
PANEL B1K 13'-4" x 58'-6"
BLDG. B FLOORS 45-46 (EAST) 46 (WEST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-A83-5
APPROVED FOR FABRICATION
DATE
DRAWN BY
DATE
APPROVED FOR FABRICATION
DATE
CHECKED BY
DATE
IN CHARGE OF
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221



TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.
A = ¼"
B = ⅛"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T1H	4	C32T1H - 58'-8"	ST201H
BRIDGING TRUSSES	T13	4	24T13 x 13'-3	BT213
3" x 2" x ¼" ANGLE	A2	4	3" x 2" x ¼" x 5'-11 9/16	ST403
	A4	5	3" x 2" x ¼" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1½" x ⅜" x 5'-8	ST402
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2½"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CBL	4	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅝" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

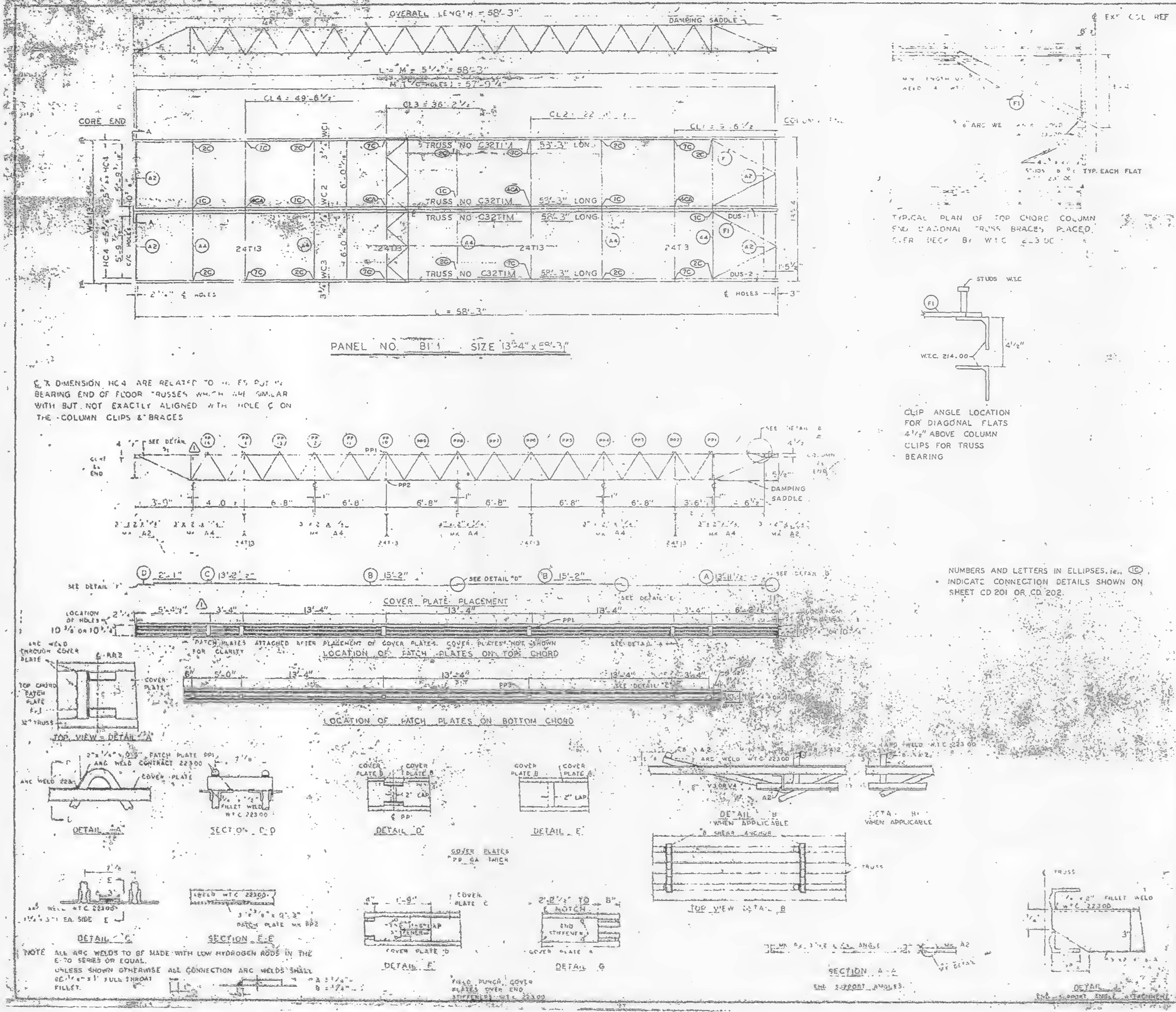
NO.	DATE	REVISION.	
1	6-4-69	AS NOTED	C.C

REF. DRWG.
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
⚠ 7-AB4-42 10-15-68
SA 124 1-6-69
7-AB3-2 1-2-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80 (N)
PANEL 81H 13'-4" x 58'-8"
BLDG. B FLOORS 79-80 (WEST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3 5
APPROVED FOR FABRICATION BY James [illegible] FOR [illegible] DATE 1/2/70
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible]
DETAILED BY A. C. WEST
FABRICATION CONT. NO. W.T.C. 281
SHEET NO. F8 81



₵ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ₵ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 2-3 OC

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK.	PCs.	SIZE	
FLOOR TRUSSES	T1M	4	C32T1M - 58'-3"	ST201M
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST218
3" x 2" x 1/4 ANGLE	A2	4	3 x 2" x 1/4 x [illegible]	ST403
	A4	5	3" x 2" x [illegible]	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-8"	ST403
	PP2	12	3" x 3/8 x 0'-3"	[illegible]
COVER PLATES	A	2	9" x 0.35' x 13'-1 1/2"	ST303
	B	4	9" x 0.135 x 15'-2"	ST303
	C	2	9" x 0.135" x 13'-2 1/2"	ST303
	D	2	9" x 0.135 x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8 x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 1/8 x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

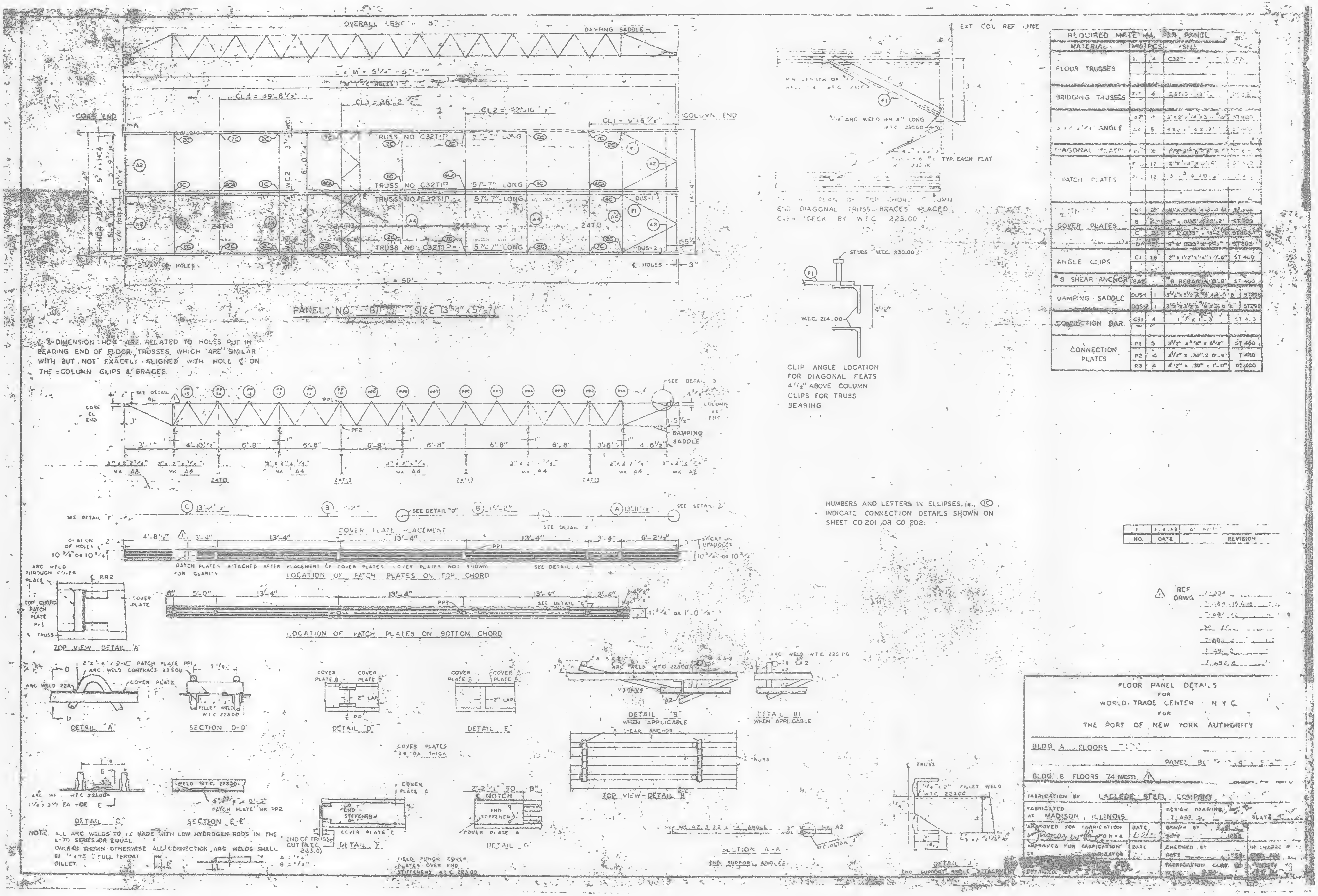
NO.	DATE	REVISION
1	6-4-69	AS NOTED

REF. DRWG
7-ABA 3 10-15-68
7-AB4 7-22-68
7-ABA 10-15-68
SA 12 1-6-69
7-ABI-2 1-9-68
7-ABI-2 7-22-68
7-AB 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 72-73
PANEL B1'1
BLDG B FLOORS 72-73 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3 5
APPROVED FOR FABRICATION BY James [illegible] DATE 1/12/70
DRAWN BY DATE 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE 1968
FABRICATION CONT. NO.
DETAILS



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES, WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL FOR PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T.	4	C32T [illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	4	24T13 [illegible]	[illegible]
3 x 2 x ¼ ANGLE	A2	4	3" x 2" x ¼" x 5'-[illegible]	ST 400
	A4	5	3" x 2" x ¼" x 3'-[illegible]	[illegible]
DIAGONAL FLATS	F1	[illegible]	[illegible]	[illegible]
PATCH PLATES	P[illegible]	12	[illegible]	[illegible]
	P[illegible]	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x .0135 x 3-11½	[illegible]
	B	[illegible]	9" x .0135" x 18'-2"	ST 303
	C	2	9" x .0135" x 13'-2"	ST 303
	D	[illegible]	9" x .0135" x 22'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 7'-6"	ST 400
#8 SHEAR ANCHOR	SA2		#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x 5/16" x 3'-4⅝"	ST 298
	DUS-2	1	3½" x 3½" x 5/16" x 3'-6⅝"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 8½"	ST 400
	P2	4	4½" x .39" x 0'-9"	T 400
	P3	4	4½" x .39" x 1'-0"	ST 400

1	[illegible]	[illegible]
NO.	DATE	REVISION

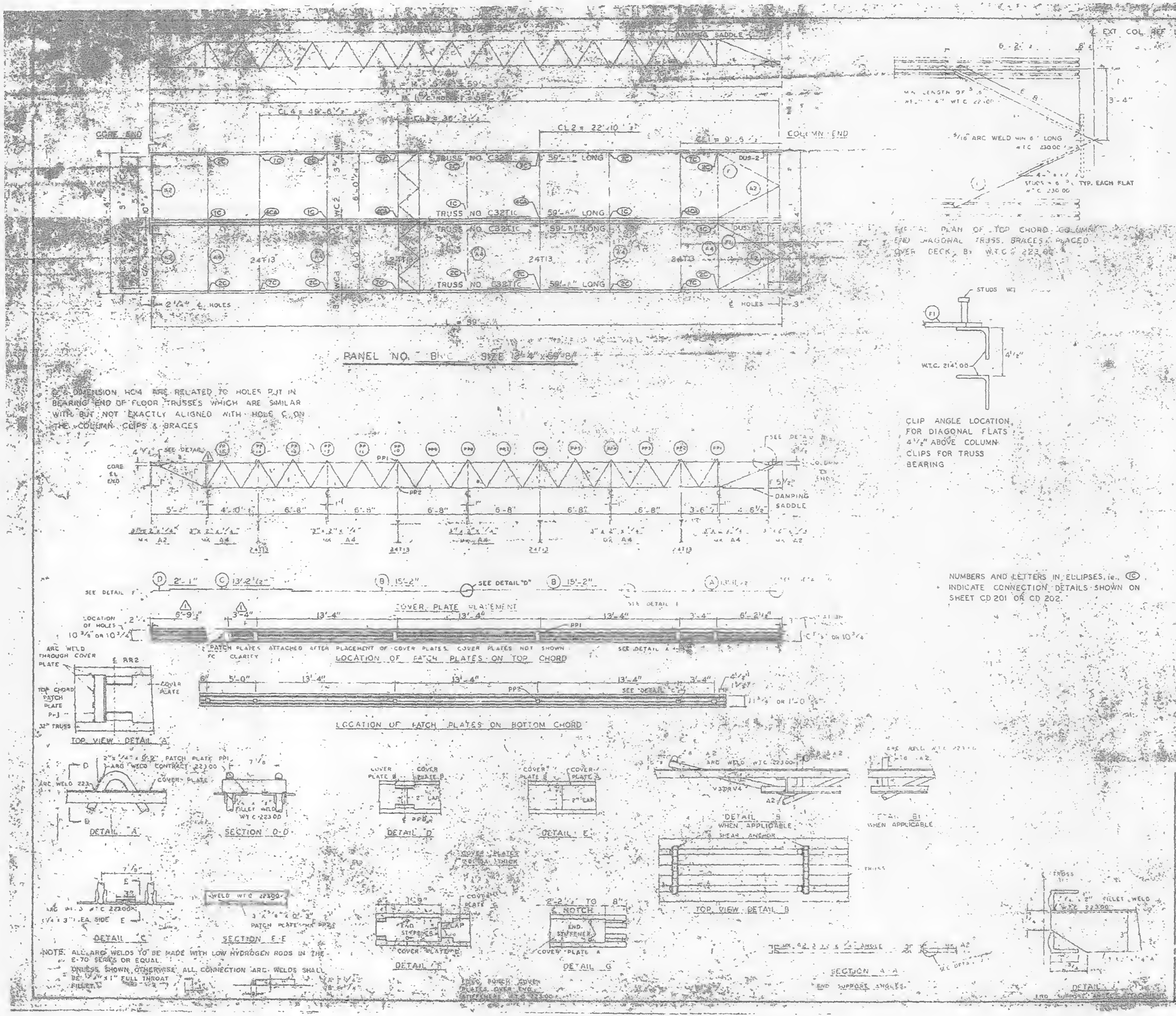
⚠1 REF DRWG
7-AB3
7-AB[illegible]
7-AB[illegible]
SP [illegible]
7-AB3 [illegible]
7-AB 2
7-AB3 B

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" [illegible] FULL THROAT FILLET.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS [illegible]
PANEL B1 [illegible] 13'-4" x 57'-7"
BLDG. B FLOORS 74 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3 5
SHEET [illegible]
APPROVED FOR FABRICATION BY [illegible] P.O.N.Y.A.
DATE [illegible]
DRAWN BY [illegible]
DATE [illegible] 1968
APPROVED FOR FABRICATION BY [illegible] FABRICATOR
DATE [illegible]
CHECKED BY [illegible]
DATE [illegible] 1968
IN CHARGE OF [illegible]
DETAILED BY [illegible]
FABRICATION CLASS [illegible]



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e., Ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1C	4	C32T1C - 59'-8"	ST 201
BRIDGING TRUSSES	T13	4	24T13 13'-3"	ST 212
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
DIAGONAL FLATS	F	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-9 1/2"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	5" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-5"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

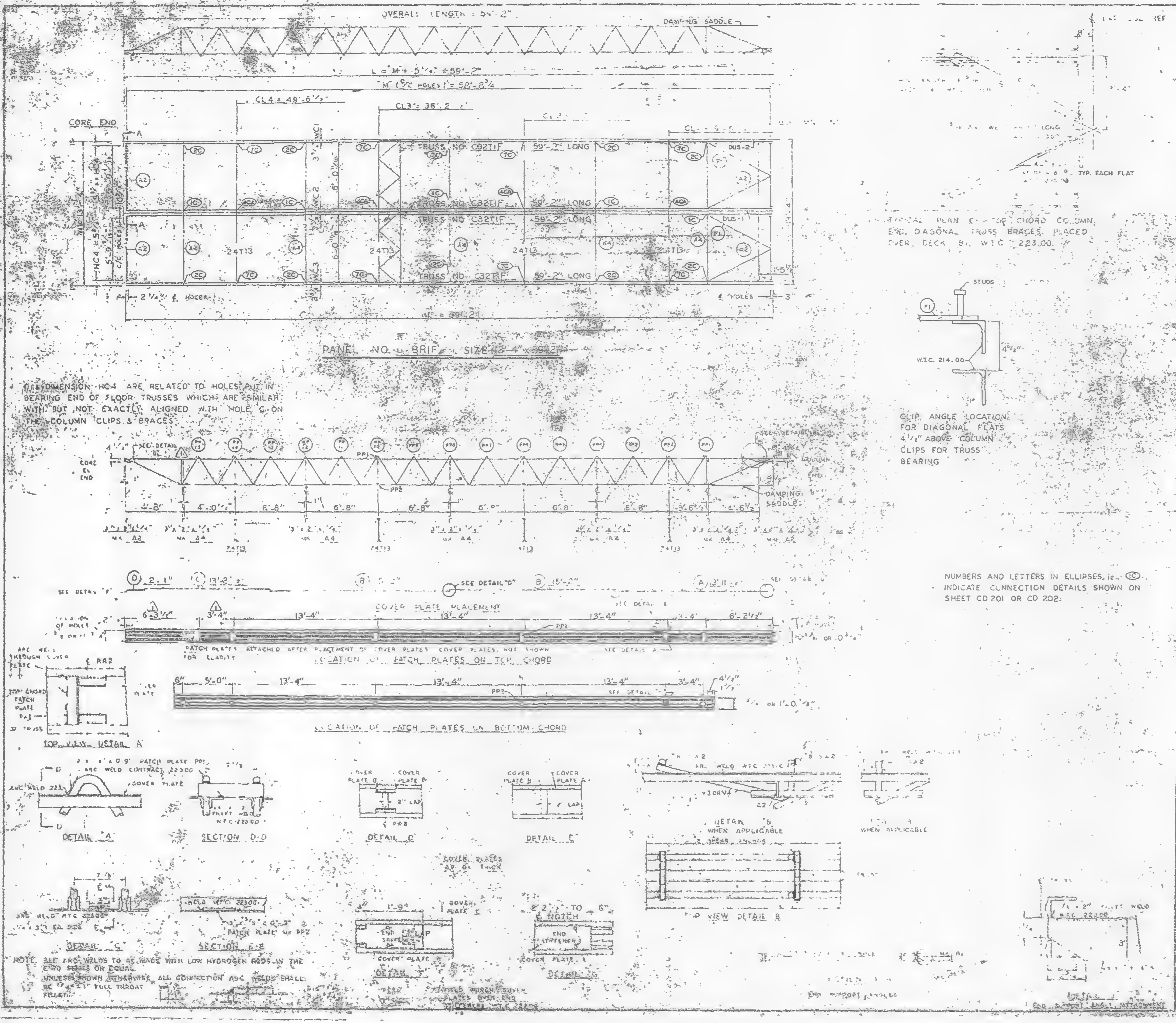
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	R

1 REF DRWG
7-AB4-13 10-15-68
7-AB4-15 16 7-22-68
7-AB4-42 10-15-68
SA-124 1-6-68
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-992-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-66, 68-74, 79-91, [illegible]
PANEL SIZE 13'-4" x 59'-8"
BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST) [illegible]

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING 7-AB3-6	
APPROVED FOR FABRICATION BY James [illegible]	DATE [illegible]	DRAWN BY DATE	
APPROVED FOR FABRICATION BY FOR FABRICATION	DATE:	CHECKED BY DATE 10-2-68	SHEET OF



HC4 DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN, END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼"x2" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1F	4	C32T1F - 59'-2"	ST201
BRIDGING TRUSSES	T-3	4	24T13 13'-3"	ST2 3
3 x 2½ x ¼ ANGLE	-2	-	3 x 2 x ¼ x 5-9⅞	ST403
	A4	5	3 x 2 x ¼ x 13'-3	ST403
DIAGONAL FLATS	F	4	1½ x ⅝ 6 x 6-8"	ST402
PATCH PLATES	PP1	12	2" x ¼ x 0'-9"	ST400
	PP2	12	3" x ⅜ x 0'-3"	ST4 3
COVER PLATES	A	2	9" x .0135" x 13'-11½	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2½	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST295
	DUS-2	1	4½" x 5" x ⅜" x 3'-6⅞"	ST295
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	5	3½" x ⅜" x 8½"	ST400
	P2	4	4½" x .39" x 0'-6"	ST400
	P3	4	4½" x .39" x 1'-0"	ST400

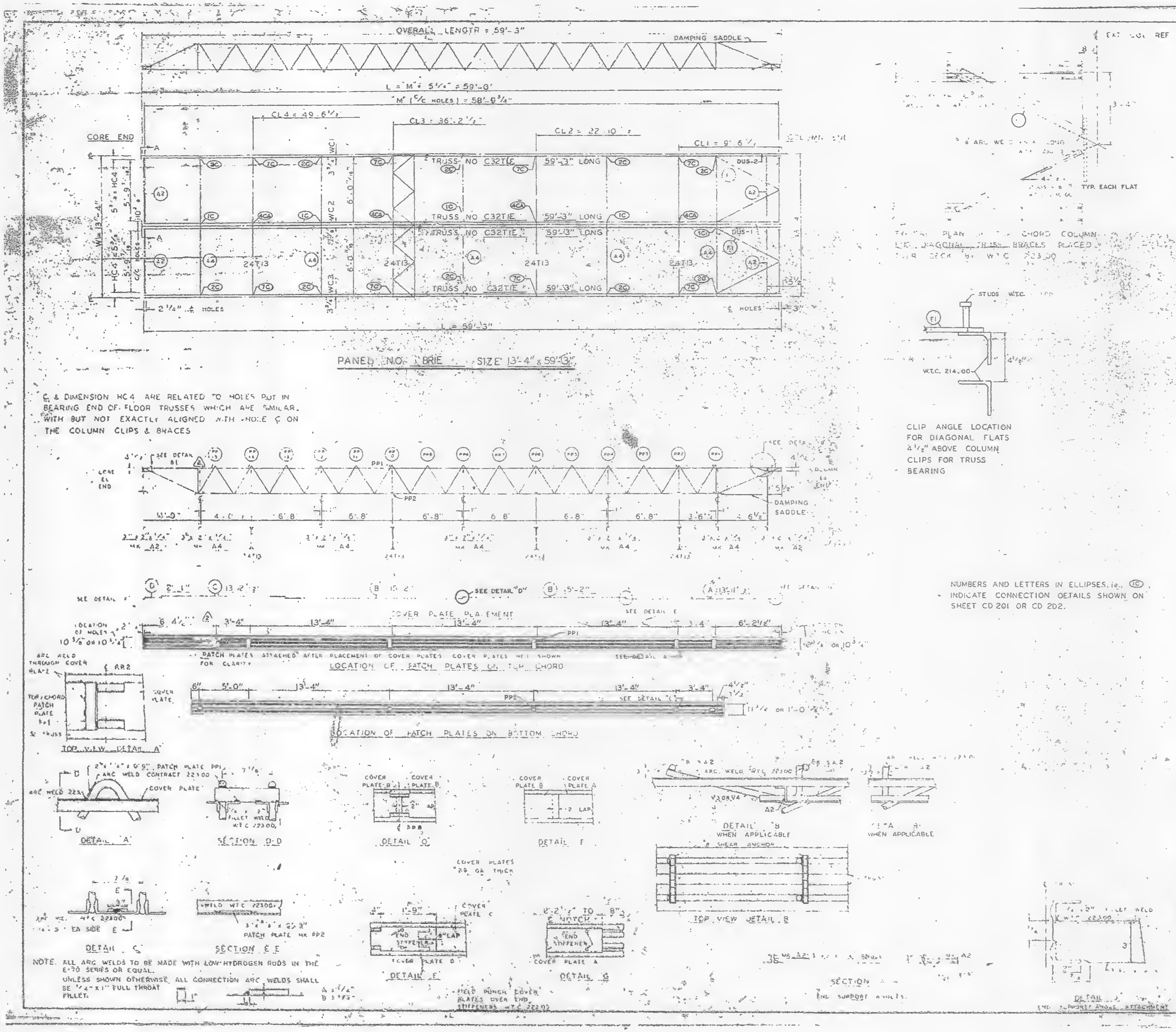
NO.	DATE	REVISION
1	6-5-69	AS NOTED

REF DRWG
7 .94 3 ... 10.5.68
7 .94 15 16 ... 7.22.68
7 AB4 42 ... 10.5.68
SB 24 ... 1.6.69
7 AB3-2 ... 1.3.69
7 AB 2 ... 7.22.68
7 AB2 8 ... 7.22.68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-48, 70-71 ... + 47-48 ...
3'-4" x 59'-2"
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3 -
APPROVED FOR FABRICATION BY James ... P.O.N.Y.A. DATE
DRAWN BY
DATE
APPROVED FOR FABRICATION BY
CHECKED BY
DATE
DETAILED BY
FABRICATION


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
L = "M" + 5 1/4" = 59'-0'
"M" (C/C HOLES) = 58'-6 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
TRUSS NO C32TIE 59'-3" LONG
TRUSS NO C32TIE 59'-3" LONG
TRUSS NO C32TIE 59'-3" LONG
TRUSS NO C32TIE 59'-3" LONG
24T13
DUS-2
DUS-1
L = 59'-3"
PANEL NO. 1 BRIE SIZE 13'-4" x 59'-3"
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL F
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
SECTION
TYPICAL PLAN AT CHORD COLUMN FOR DIAGONAL TRUSS BRACES PLACED FOR DECK BY W.T.C. 223.00
W.T.C. 214.00
STUDS W.T.C.
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR. WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW-HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				SEE DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T.E.	4	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5-11 9/16	ST403
	A4	5	3"x2"x1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6-8	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2	ST303
	B	4	9" x .0135" x 15'-2	ST303
	C	2	9" x .0135" x 13'-2 1/2	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

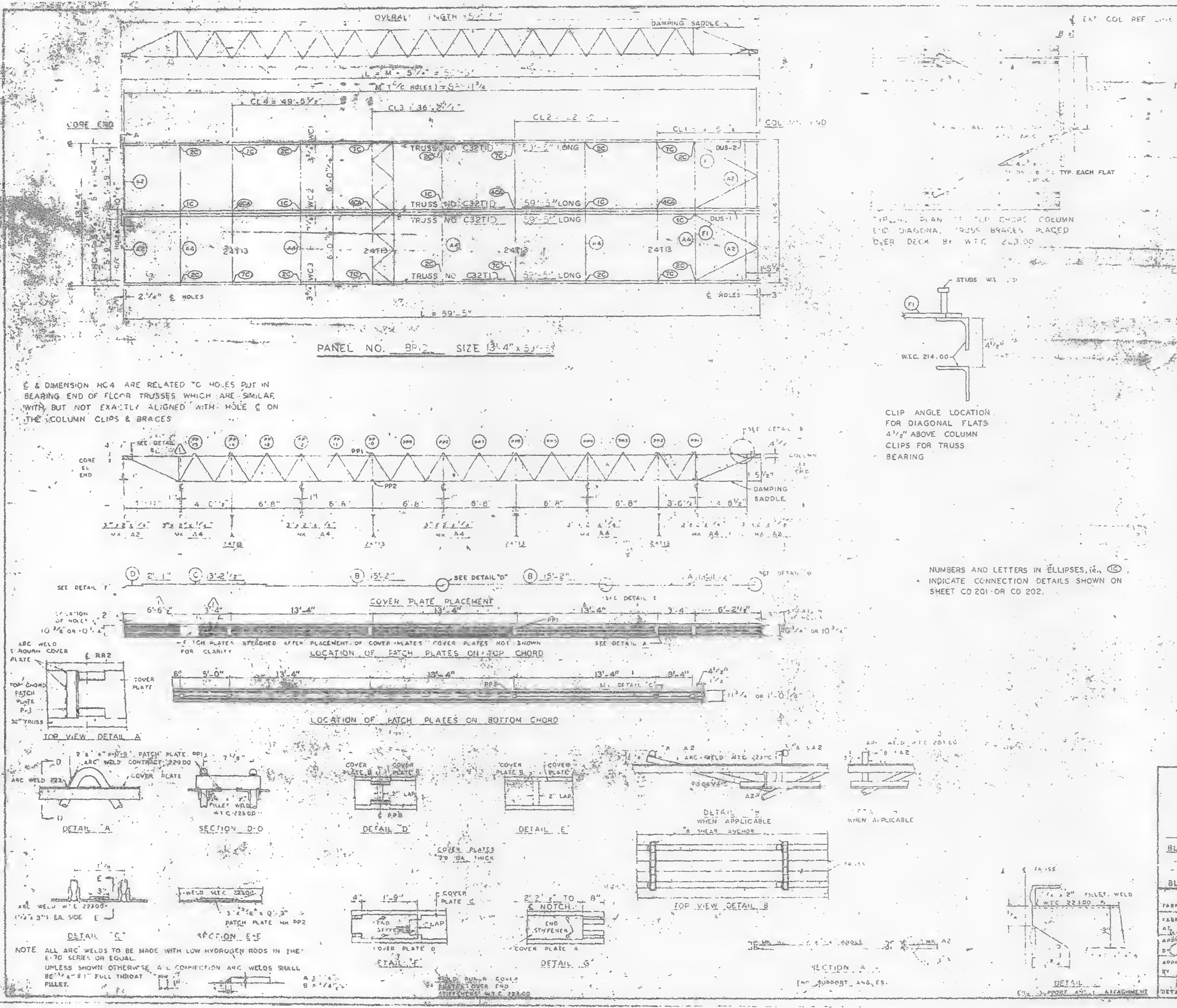
NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	R.A.P.
1	7-15-68	GENERAL	TMC

REF DRWG (2)	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-24	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 19-11 (SOUTH)
PANEL 831F x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB2-6 PLATE
APPROVED FOR FABRICATION BY James White Bra DATE
DRAWN BY DATE FEB. 24, 1968.
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R.PAUL DATE FEB. 24, 1968.
IN CHARGE OF
FABRICATION CONT NO. W.T.C. 221
SHEET NO. 831F-1E



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" - 8 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible]	4	C32T1 · 59'-[illegible]	[illegible]
BRIDGING TRUSSES	T1	4	24T13 · 13'-4"	[illegible]
3 x 2" x 1/4" ANGLE	A2	4	3"x2"x1/4"x5'-[illegible]	[illegible]
	A4	5	3x2"x1/4"x13'-3	[illegible]
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-6	[illegible]
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	[illegible]
	PP2	12	3"x3/8"x0'-3	[illegible]
COVER PLATES	A	2	9"x.0135"x13'-11[illegible]	[illegible]
	B	4	[illegible] x.0135" [illegible]	[illegible]
	C	2	9"x.0135"x[illegible]	[illegible]
	D	2	9"x.0135"x2'-1"	ST309
ANGLE CLIPS	CL	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-[illegible] 7/8"	ST298
CONNECTION BAR	CB1	4	1"Φ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2"x5/8"x0'-8"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

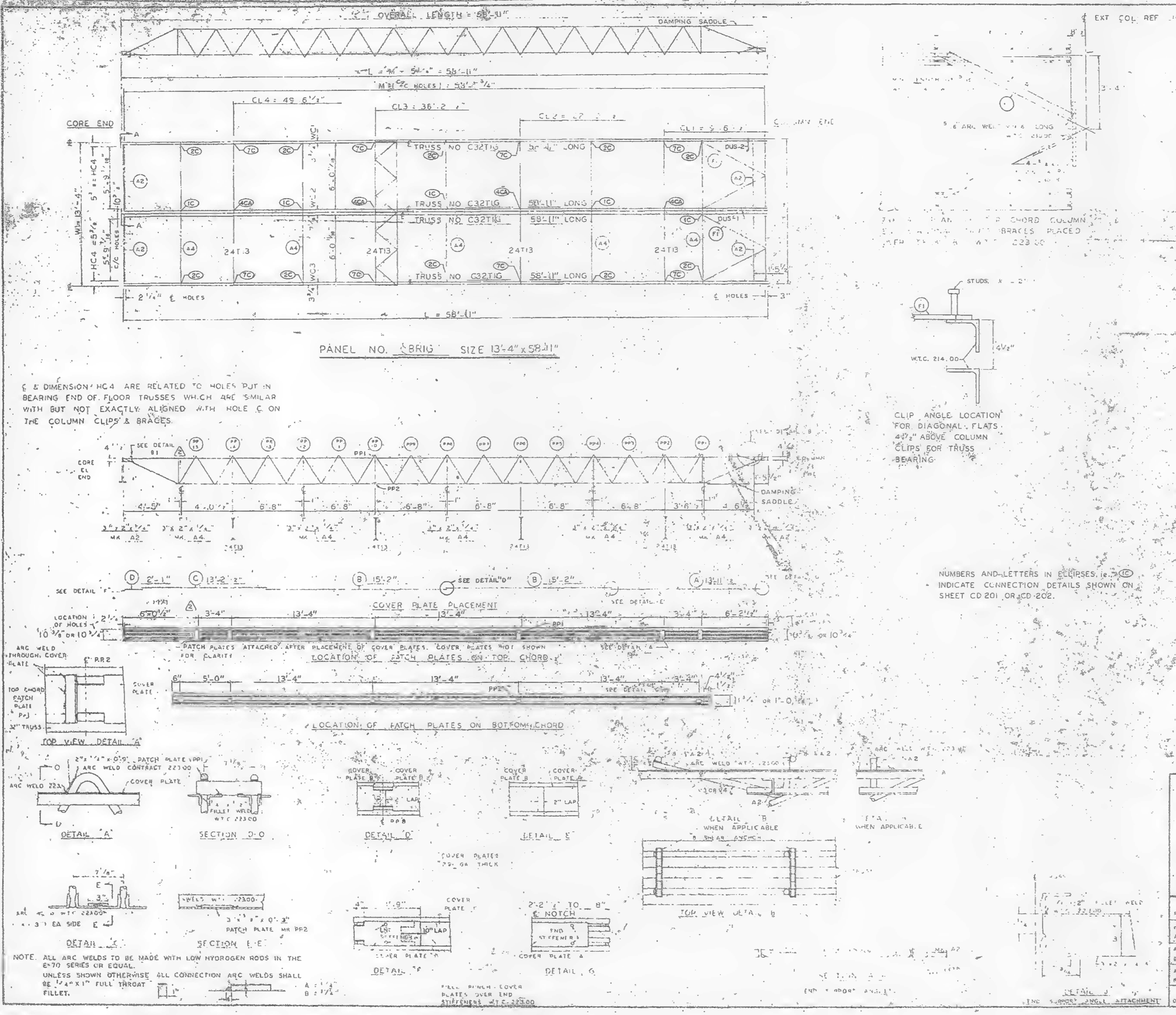
1	6-5-69	AS NOTED
NO.	DATE	REVISION

⚠1 REF. DRWG
7-AB4-3,3 6-15-68
7-AB4-15,6&39 7-2-68
7-AB4-42 10-15-68
SA-124 1-6-65
7-B3-2 [illegible]
7-[illegible]-2 [illegible]
7-[illegible]-6 [illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS [illegible]
PANEL BP- 13'-4" x 59'-5"
BLDG. B FLOORS 81-82 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3-6
APPROVED FOR FABRICATION BY [illegible] FOR P.N.Y.A. DATE 4/3/70
DRAWN BY [illegible]
DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY
DATE
IN CHARGE OF
FABRICATION
DETAILED BY: A C WEAVER


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-6½"
CL3 = 36'-2"
TRUSS NO. C32T1G 58'-11" LONG
24T13
PANEL NO. 8BRIG SIZE 13'-4" x 58'-11"
L = 58'-11"
℄ EXT COL REF LINE
STUDS
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
3" x ⅜" x 0'-3" PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
COVER PLATES
END STIFFENERS
A = 1¼"
B = 1½"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	4	C32T1G - 58'-11"	ST 201G
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 212
3" x 2" x ¼" ANGLE	A2	4	3" x 2" x ¼" x 5'-11 9/16	ST 403
	A4	5	3" x 2" x ¼ x 13'-3"	ST 403
DIAGONAL FLATS	F1	4	1½" x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11½	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜ x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠2	6-5-69	AS NOTED	RJP
⚠1	7-15-68	GENERAL	TMC

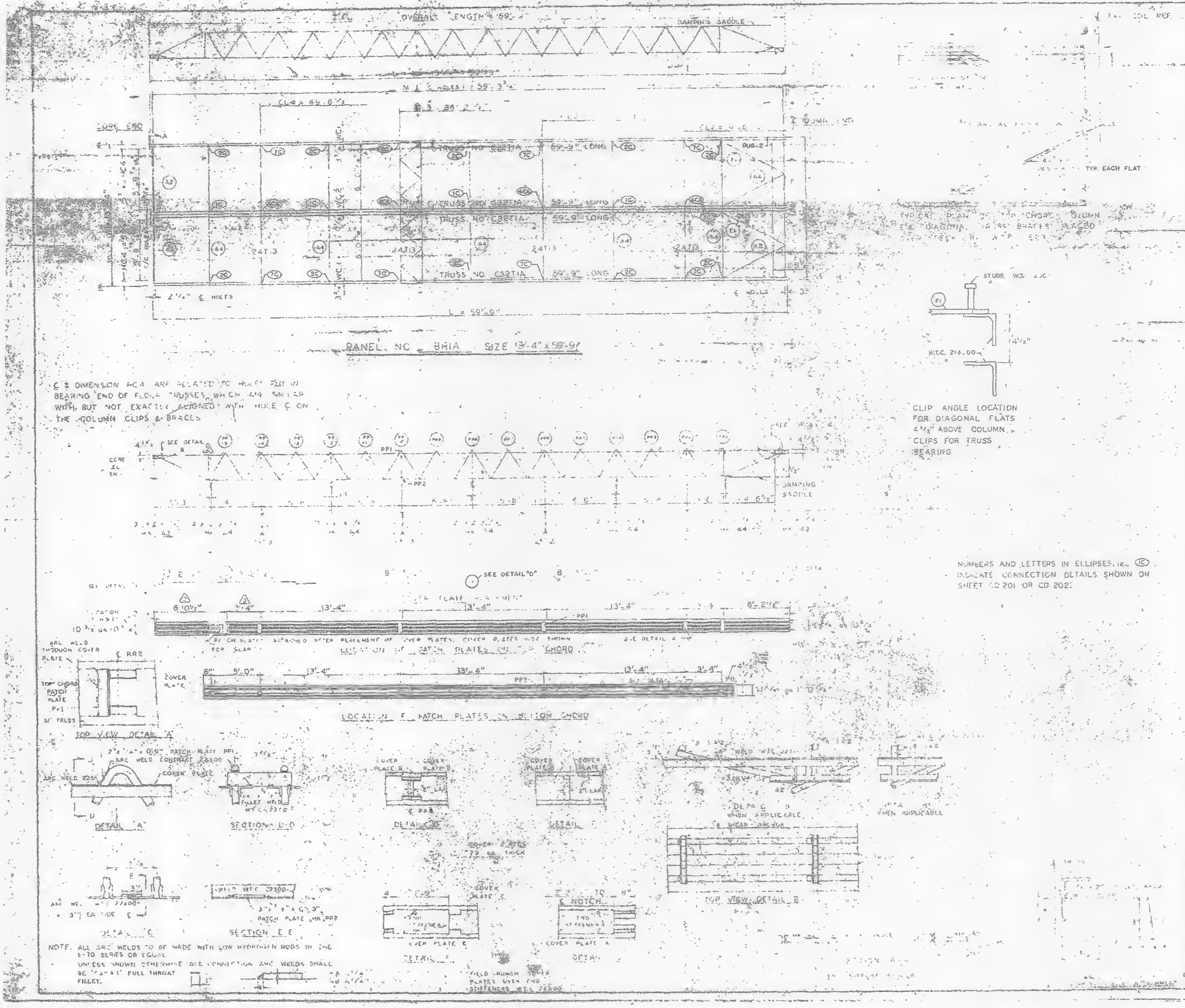
⚠2 REF DRWG

7-AB4-3	10-15-69
7-AB4-15 & 16	7-22-69
7-AB4-42	10-15-69
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11, 39 (NORTH) 39-40 (
PANEL 8BRIG 13'-4" x 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST) ⚠2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-6
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE FEB. 23, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.J. [illegible] DATE FEB. 24, 1968
IN CHARGE OF [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. 8BRIG



PANEL NO. BRIA SIZE 13'-4" x 59'-9"

℄ & DIMENSION HC4 ARE RELATED TO HOLES CUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH, BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
~~FLOOR TRUSSES~~	[illegible]	4	C32T1A 59'-9	[illegible]
[illegible] TRUSSES	[illegible]	4	24T13 13'-4	[illegible]
[illegible] ANGLE	[illegible]	[illegible]	[illegible]	[illegible]
	A4	5	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x .0135" x 3'-11 1/2"	ST 303
	B	4	9" x .0135" x 13'-2"	ST 303
	C	2	9" x .0135" x 12'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
[illegible] SHEAR ANCHOR	SA21	8	#8 REBAR x [illegible]	ST 400
DAMPING SADDLE	DUS-1	1	[illegible]	ST 29A
	DUS-2	1	[illegible]	ST 23B
CONNECTION BAR	CB1	4	[illegible]	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-9"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x [illegible]	ST 400

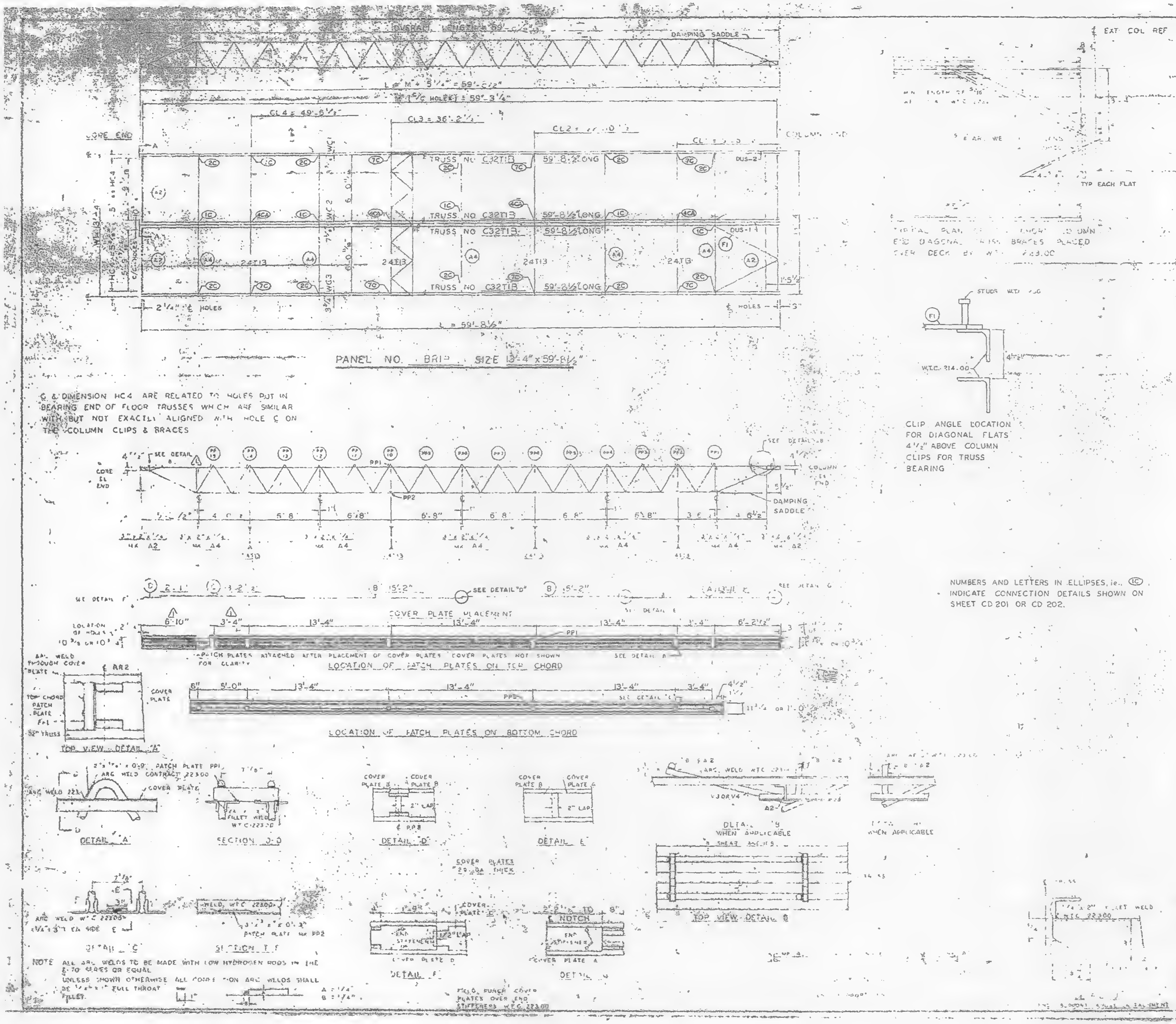
NO	DATE	REVISION
2	6-5-69	AS NOTED
1	7-15-68	GENERAL

2 REF DRWG
- [illegible] 10-15-68
- 7-AB4 [illegible] 7-22-68
- 7-AB4-42 10-15-68
- [illegible] 1-26-69
- [illegible] [illegible]
- [illegible] 1-26-68
- [illegible] 1-26-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-[illegible]
69 NORTH [illegible]
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 48-58, 60-69 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING [illegible]
APPROVED FOR FABRICATION [illegible] DATE 4/2/[illegible]
DRAWN BY [illegible] DATE FEB. 24, 1968
APPROVED FOR FABRICATION FOR FABRICATOR DATE
CHECKED BY [illegible] DATE FEB. 24, 1968
[redacted]
FABRICATION CONT. NO. #1 [illegible]
SHEET NO. [illegible]



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN AT … EXCEPT … COLUMN END DIAGONAL … BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ³⁄₁₆" FULL THROAT FILLET.

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				ECT
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T-B	4	C32T1B - 59'-8½"	ST [illegible]
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 2[illegible]
[illegible] ANGLE	A2	4	[illegible]	[illegible]
	A4	5	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	4	[illegible]	[illegible]
PATCH PLATES	F1	12	[illegible]	[illegible]
	PP	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x .0135" x 13'-11"	ST303
	B	4	9" x .0135" x 13'-2"	ST303
	C	2	9" x .0135" x 13'-2½"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-4⅞"	ST296
	DUS-2		3½" x 3½" x ⅜" x 3'-6⅞"	ST296
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅝" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

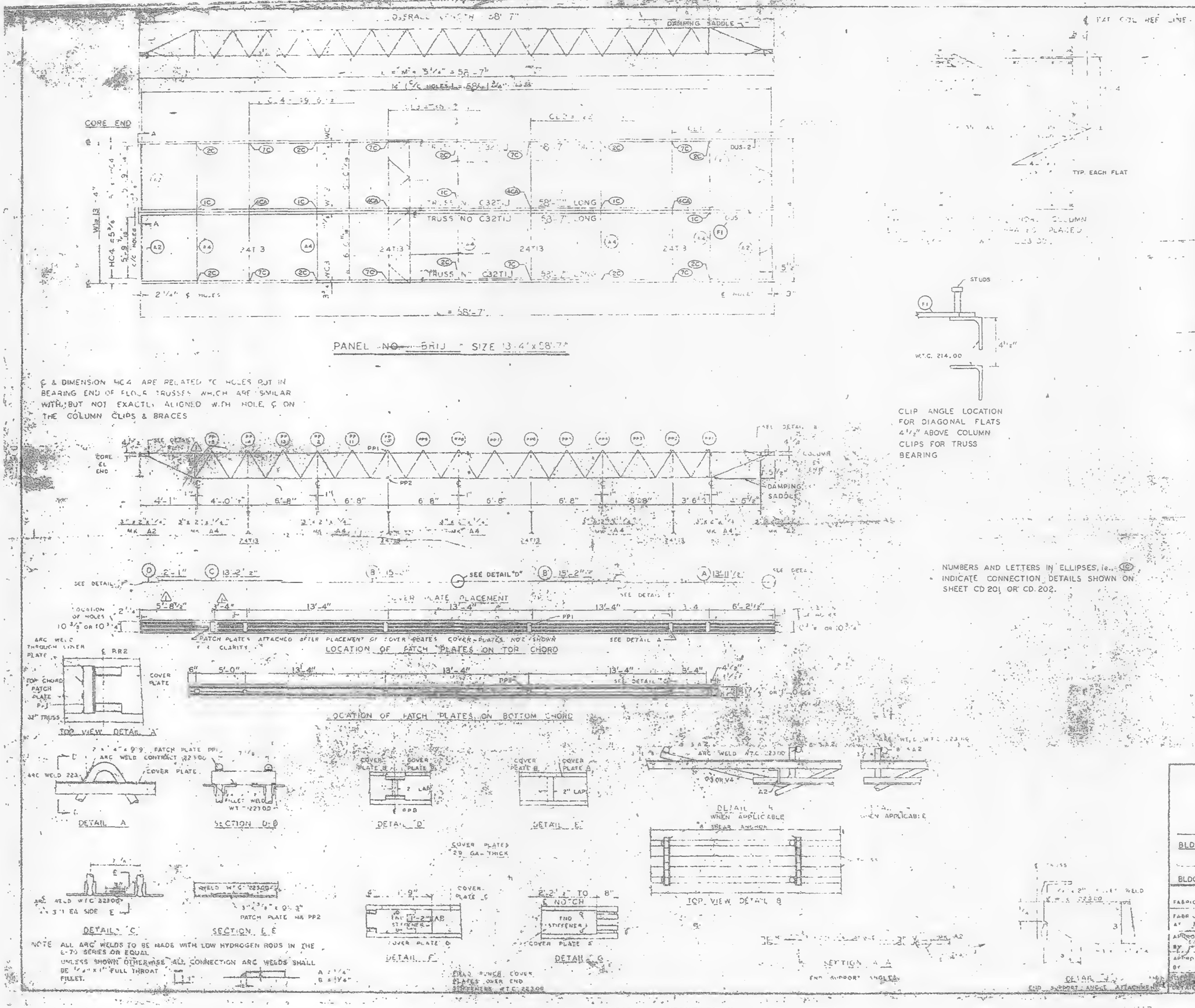
1	6-5-69	AS NOTED
NO.	DATE	REVISION

REF DRWG
7-AB4-2
7-AB4-15/15-B39
7-AB4-42
SE-CA
7-AB3-2
7-AB1-2
7-AB2-B

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 33-… [illegible]
PANEL [illegible]
BLDG. B FLOORS 83-91, 93-108 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3-…
APPROVED FOR FABRICATION DATE
DRAWN BY
DATE
APPROVED FOR FABRICATION DATE
CHECKED BY
DATE
FABRICATOR CONT. NO 221
SHEET NO



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH, BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DWG
FLOOR TRUSSES	T1	4	C32T1 5	ST201
[illegible] TRUSSE	T13	4	24T13 [illegible]	[illegible]
[illegible] ANGLE	A2	4	[illegible]	[illegible]
	A4	5	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9 x .135 x 3'-11"	ST303
	B	4	9 x 0.135" x 15'-2"	ST303
	C	2	9 x 0.135" x 13'-2 1/2"	ST303
	D	2	9 x 0.135 x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-[illegible]	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 1/8"	ST 28
	DUS-2	[illegible]	3 1/2 x 3 1/2 x 3/8 x 3'-5 [illegible]	ST 28
CONNECTION BAR	CB1	4	1 1/8 x 1'-3"	[illegible]
CONNECTION PLATES	P1	5	3 1/2" x 5/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

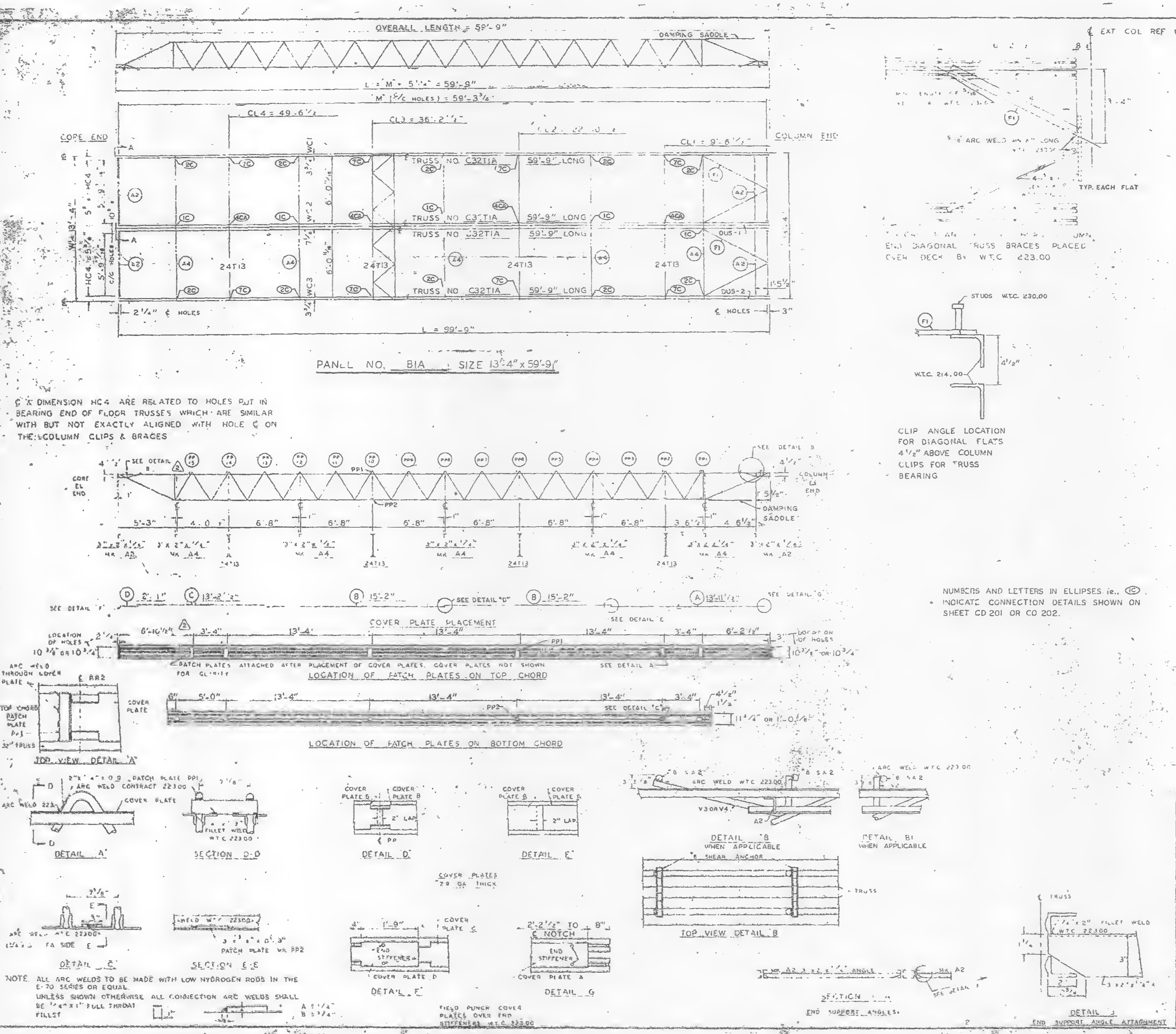
NO.	DATE	REVISION	
1	8-5-68	AS NOTED	RJ

REF DRWG.
7-AB4-2 10-15-68
7-AB4-[illegible] 7-22-68
7-AB4-42 [illegible]
SA 24 7-6-68
⚠1 7-AB4-0 [illegible]
7-AB1-42 7-22-68
7-AB2-8 7-27-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47 (N)
PANEL BRIJ
BLDG. B FLOORS 40 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 383 6 [illegible] 51475
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY [illegible] DATE
DETAILED BY J. A. S. WEBER
FABRICATION SHOP DWG. W.T.C. [illegible]



NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET
A = 1¼"
B = 1¾"

NUMBERS AND LETTERS IN ELLIPSES ie., ⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	4	C32T1A - 59'-9"	[illegible]
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST2 3
3 x 2 x ¼ ANGLE	A2	4	3 x 2 x ¼ x 5 [illegible]	[illegible]
	A4	5	3 x 2 x ¼ x [illegible] 8	[illegible]
DIAGONAL FLATS	F1	4	2 x [illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	
	PP2	12	3" x ⅜ x 0 [illegible]	
COVER PLATES	A	2	[illegible]	[illegible]
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0-9	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x [illegible]	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-4-69	AS NOTED	GDC
1	7-15-68	GENERAL	TMJ

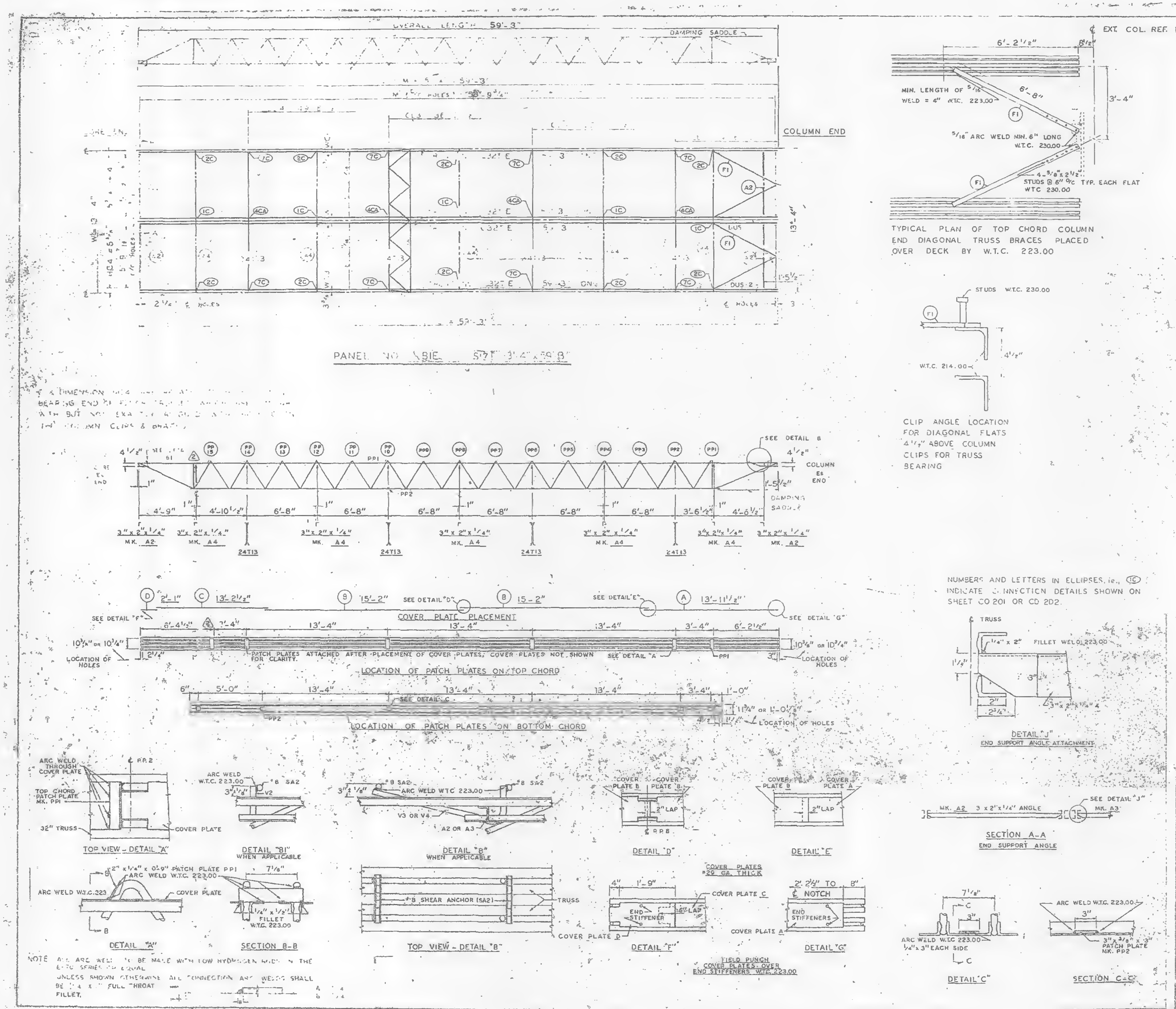
1 REF DRWG
7-AB4-2 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-42 10-15-68
SA 124 1-6-69
7-AB3-2 1-[illegible]-68
7-AB1-2 7-23-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N Y C
FOR
PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-58, 60, 66, 68
69 (NORTH) PANEL B1A 13'-4" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58 [illegible] 2

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7 AB3 5 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR LACLEDE DATE	DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY [illegible] DATE FEB 24, 1968 IN CHARGE OF [illegible]
DETAILED BY [illegible]	FABRICATION CONT NO W T C 221 SHEET NO FP B1A



TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

DIMENSION [illegible] BEARING END [illegible] WITH BUT NOT EXA[illegible] COLUMN CLIPS & BRA[illegible]

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
TRUSSES	T.E.	4	C32T:E - 59'-3"	ST201E
[illegible]	T13	4	24T13 - 13'-3"	ST213
[illegible]	A2	4	3 x 2" x 1/4" x 5'-11 6/16"	ST403
	A4	5	3 x 2" x 1/4" x 13'-3"	ST403
[illegible] ATS	F	4	[illegible]	ST402
PATCH PLATES	PP1	12	2 x 1/4 x [illegible] 9	ST400
	PP2	12	3 x 3/8 x 2'-3"	ST400
COVER PLATES	[illegible]	[illegible]	[illegible]	ST303
	B	4	9" x .0135 x 15'-2"	ST303
	C	2	9" x .0135 x 13'-2 1/2"	ST303
	D	2	9" x .0135 x 2'-1"	ST303
[illegible] CLIPS	C	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

NO.	DATE	REVISION	BY
2	6-4-69	AS NOTED	G.D.C.
1	7-15-68	GENERAL	T.M.C.

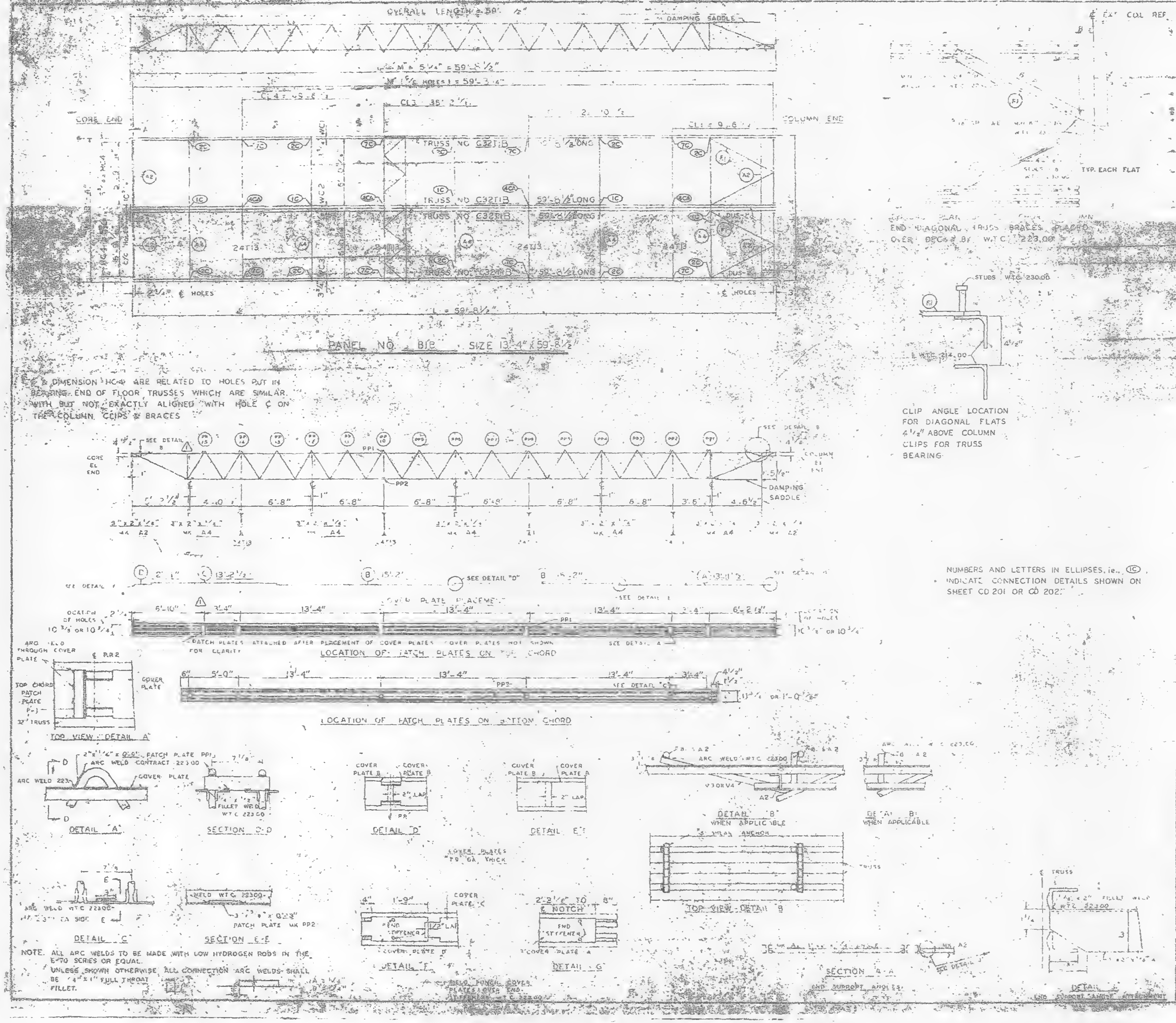
2 REF. DRWS.

7-AB6-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-24	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB3-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-11 (NORTH & SOUTH)
PANEL B1E 13'-4" x 59'-3"

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB4-5 PLATE
APPROVED FOR FABRICATION BY James W. [illegible] DATE 1/12/70
DRAWN BY [illegible] DATE FEB. 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R.P. DATE FEB. 24, 1968
IN CHARGE OF PROD. ENG.
FABRICATION CONT. NO. WTC 221
SHEET NO. FP B1E



℄ & DIMENSION "HC" ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN, CLIPS & BRACES

END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	[illegible]	4	32 [illegible] 59'-8½"	[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	[illegible]
[illegible] ANGLE	A2	[illegible]	[illegible]	[illegible]
	A4	5	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]	[illegible]
PATCH PLATES	[illegible]	2	[illegible]	[illegible]
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST 303
	B	4	9" x .0135" x 13'-4"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	G1	16	2" x 1½" x ¼" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-5⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	[illegible]	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION
1	[illegible]	AS NOTED

⚠ REF DRWG

7-AB4 [illegible]	[illegible] 68
7-AB4 15 & 16	[illegible] 68
7-AB4 [illegible]	10-15-68
[illegible]	[illegible]
7-AB2 2	[illegible] 68
7-AB 3	7-2[illegible]-68
7-AB2 [illegible]	7-24-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-9[illegible], 93-106 [illegible]

PANEL [illegible]

BLDG. B FLOORS 83-91, 93-106 (WEST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING 7-AB3-3

PLATE

APPROVED FOR FABRICATION BY [illegible] DATE [illegible]

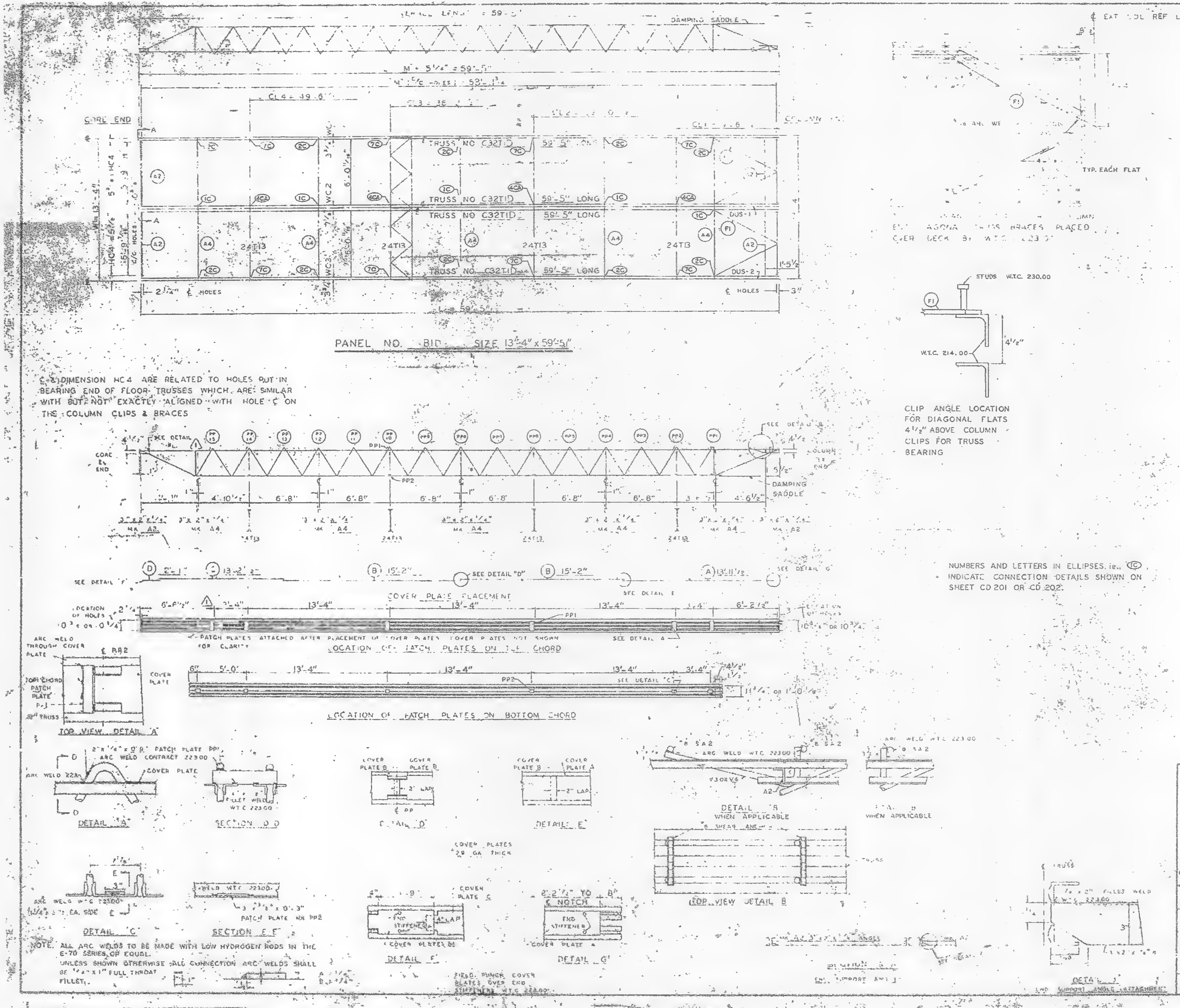
DRAWN BY [illegible]

APPROVED FOR FABRICATION BY [illegible] FABRICATOR DATE

CHECKED BY [illegible] DATE

DETAILED BY [illegible]

FABRICATION CONT. NO. W.T.C. [illegible]


DAMPING SADDLE
CORE END
COLUMN
TRUSS NO C32T1D 59'-5" LONG
24T13
DUS-1
DUS-2
PANEL NO. B1D SIZE 13'-4" x 59'-5"
SEE DETAIL
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
4½"
COVER PLATES 20 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
EXT COL REF LINE

€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF DRWG
FLOOR TRUSSES	T	4	[illegible]	[illegible]
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	[illegible]
3 x 2 x ¼ ANGLE	A2	4	[illegible]	ST 303
	A4	5	[illegible]	ST 403
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	
COVER PLATES	A	2	9" x 0.135" x 13'-2"	ST 303
	B	4	9" x 0.135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x 0.135" x 2'	ST 303
ANGLE CLIPS	C1	16	2" x 1'2" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x [illegible]	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST 403
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .39" x 0'-8"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400

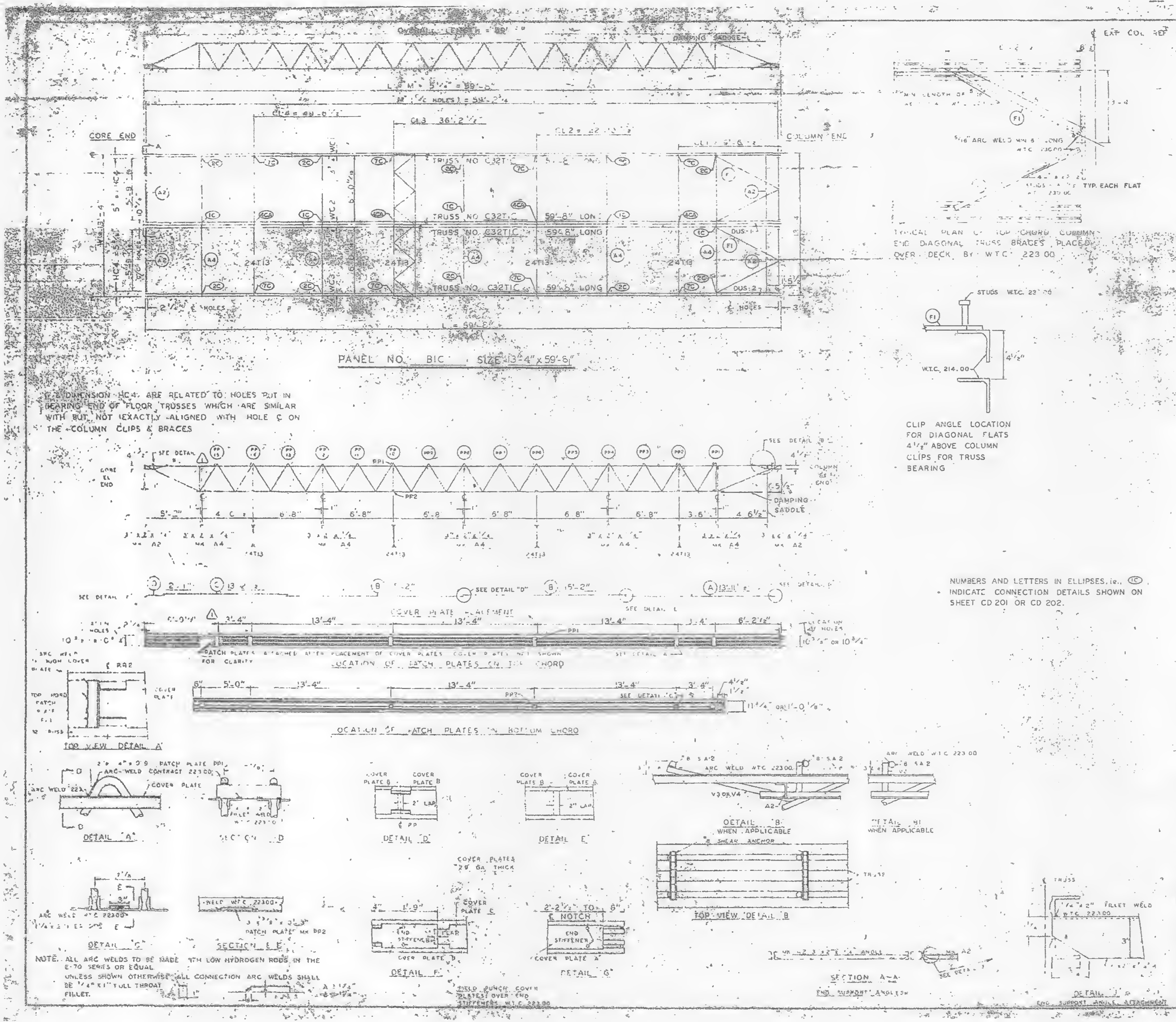
NO.	DATE	REVISION
⚠1	8-4-69	AS NOTED

⚠ REF DRWG
7-AB4-3 [illegible]
7-AB4-9 & 16 [illegible]
7-AB4-42 10-15-68
SA-124
7-AB3-2 1-3-69
7-AB1-2 [illegible]
7-AB2-8 [illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A · FLOORS B1-B2 N
PANEL B1 [illegible]
⚠ BLDG. B FLOORS B1-B2 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] PLATE [illegible]
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE [illegible] 1969
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY [illegible] DATE [illegible] 1969
IN CHARGE OF [illegible]
DETAILED [illegible]
FABRICATION CONT. NO. WTC [illegible] 221
SHEET NO. [illegible]



C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., 1C, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL FOR PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1	4	C32T1C 59'-[illegible]	[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	[illegible]
3"x2½"x¼" ANGLE	A2	4	[illegible]	[illegible]
	A4	5	[illegible]	ST403
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	1	[illegible]	[illegible]
COVER PLATES	A	2	9"x.0135"x13'-11½"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2½"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1½"x¼"x0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	2	#6 REBAR x 0'-6"	ST 400
DAMPING SADDLE	DUS-1	1	3½"x3½"x⅜"x3'-6⅞"	ST296
	DUS-2	1	3½"x3½"x⅜"x3'-6⅞"	ST296
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½"x⅜"x6½"	ST 400
	P2	4	4½"x.30"x0'-8"	ST 400
	P3	4	4½"x.39"x1'-0"	ST 400

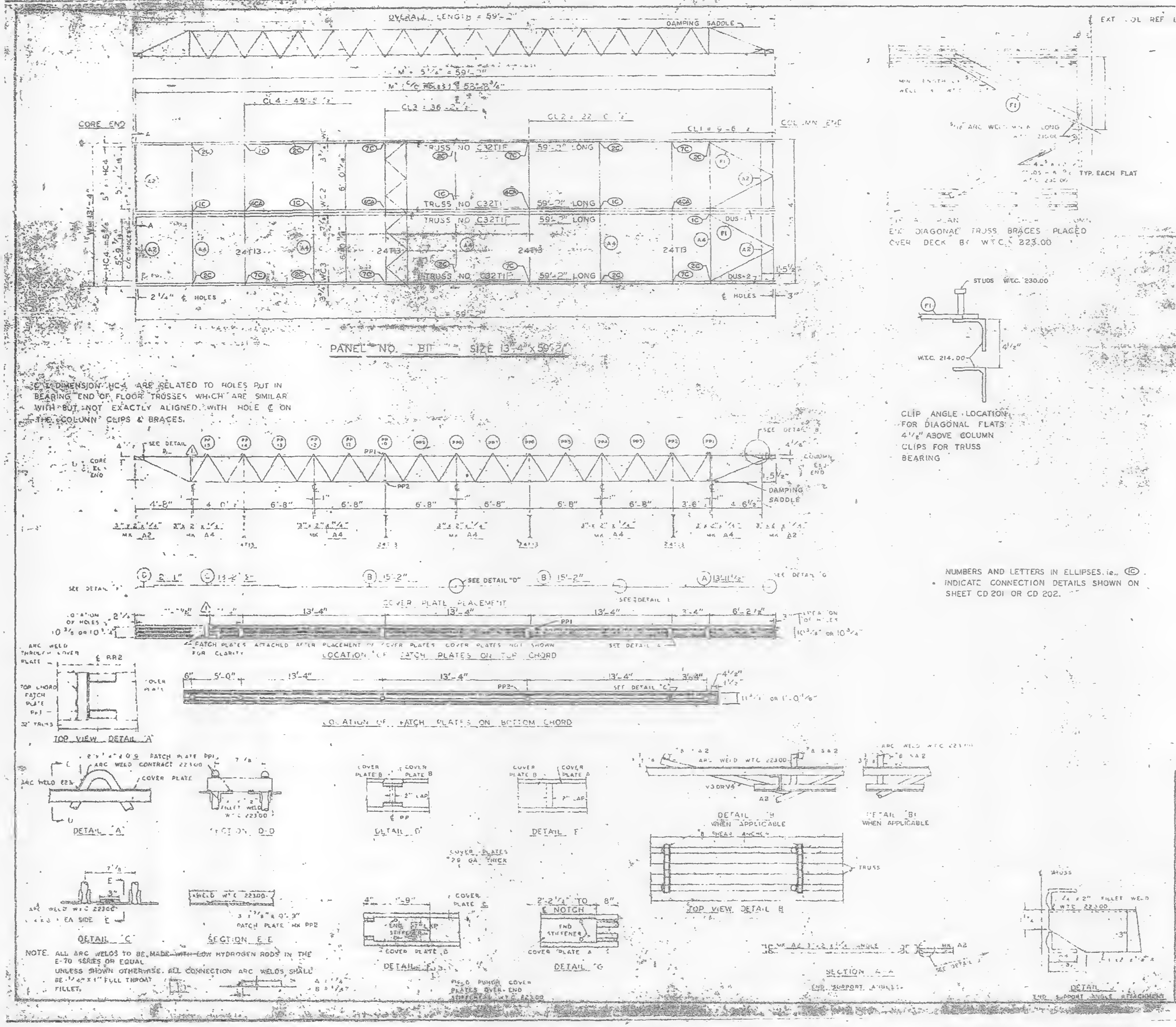
1	6-4-69	AS NOTED
NO.	DATE	REVISION

1 REF DRWG
7-AB4-2 — 6-[illegible]-68
7-A94-15 & 16 — [illegible]-2[illegible]-68
AB4-42 — 10-15-68
SA-14 — 1-6-69
7-AB3-2 — 1-3-68
7-AB1-2 — 7-22-68
7-AB2-6 — 7-[illegible]-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, [illegible]
PANEL [illegible]
1 BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB4-5
APPROVED FOR FABRICATION FOR S.&H.E.S. DATE [illegible]
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE 1968
IN CHARGE [illegible]
FABRICATION CODE NO. [illegible] 221
SHEET NO. B1
DETAILED BY A. G. [illegible]



HC4 DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE ~~WITH LOW~~ HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE, ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	4	C32T1F - 59'-2"	ST [illegible]
BRIDGING TRUSSES	T3	4	24T13 13'-3"	ST 212
[illegible] ANGLE	A2	4	3" x 2" x ¼" x [illegible]	ST 403
	A4	5	3" x 2" x ¼" x [illegible]	ST 403
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible] x 0'-9"	[illegible]
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2½"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#6 REBAR x [illegible]	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 293
	DUS-2	1	3½" x 3½" x ⅜" x 3'-3⅞"	ST 293
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	[illegible]	[illegible]	

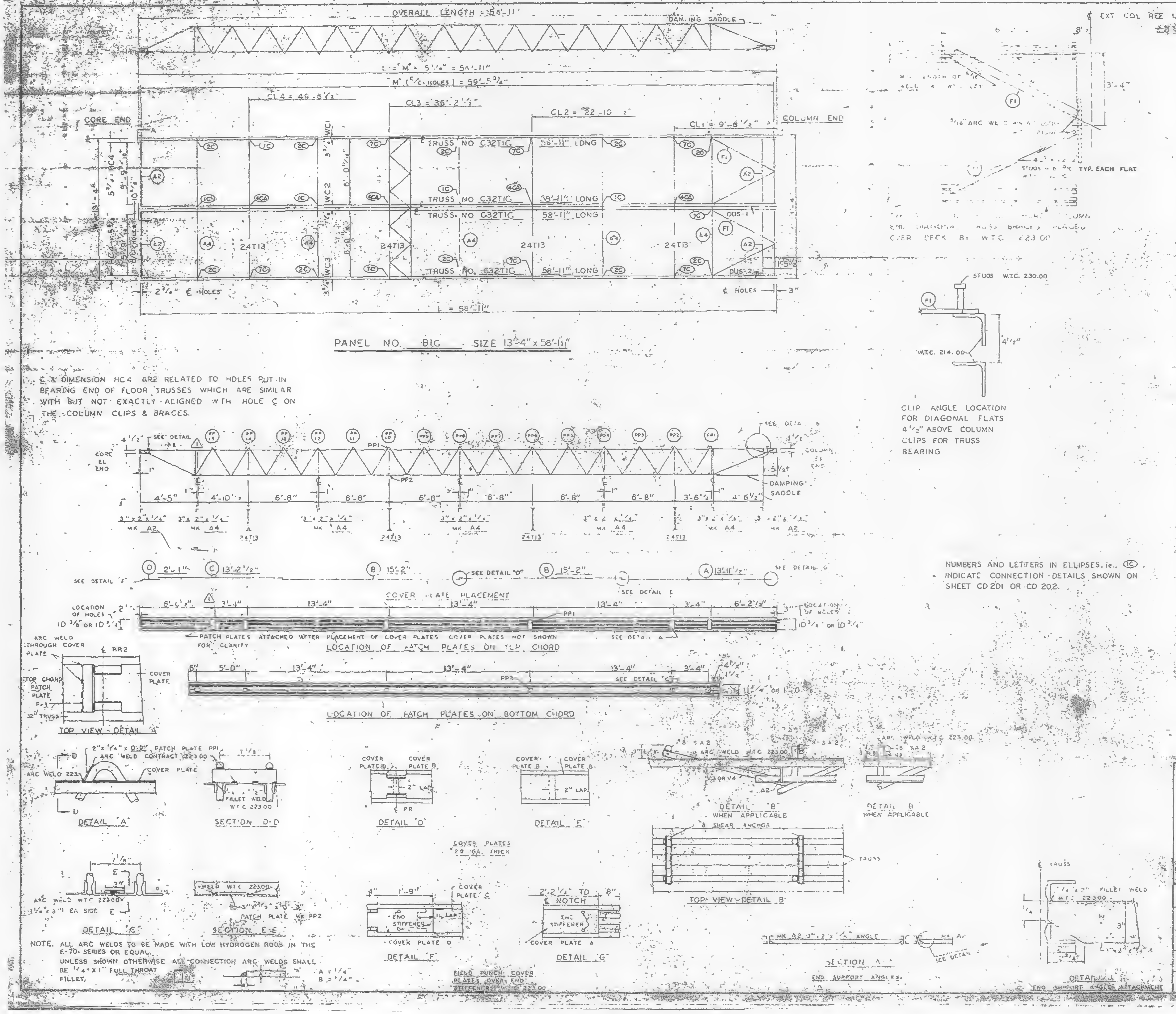
1 REF DRWG
7-AB4-3 [illegible]-58
7-AB4-15 & 16 1-2[illegible]-58
7-AB4-42 [illegible]-58
SA 124
7-AB3-2 [illegible]-3-68
7-AB1-2 [illegible]8
7-AB2-8 [illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS [illegible] 47-[illegible] 70-71 [illegible]
PANEL B1F - 13'-4 [illegible]
1 BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING 7-AB1-5	
APPROVED FOR FABRICATION BY James W [illegible] FOR P.O.N.Y.A.	DATE [illegible]	DRAWN BY [illegible] DATE [illegible] 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE [illegible] 1968	
DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. 223	



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T1G	4	C32T1G - 58'-11"	ST201G
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3" x 2" x 1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x .035" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/8"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
△1	6-4-69	AS NOTED	C.U.

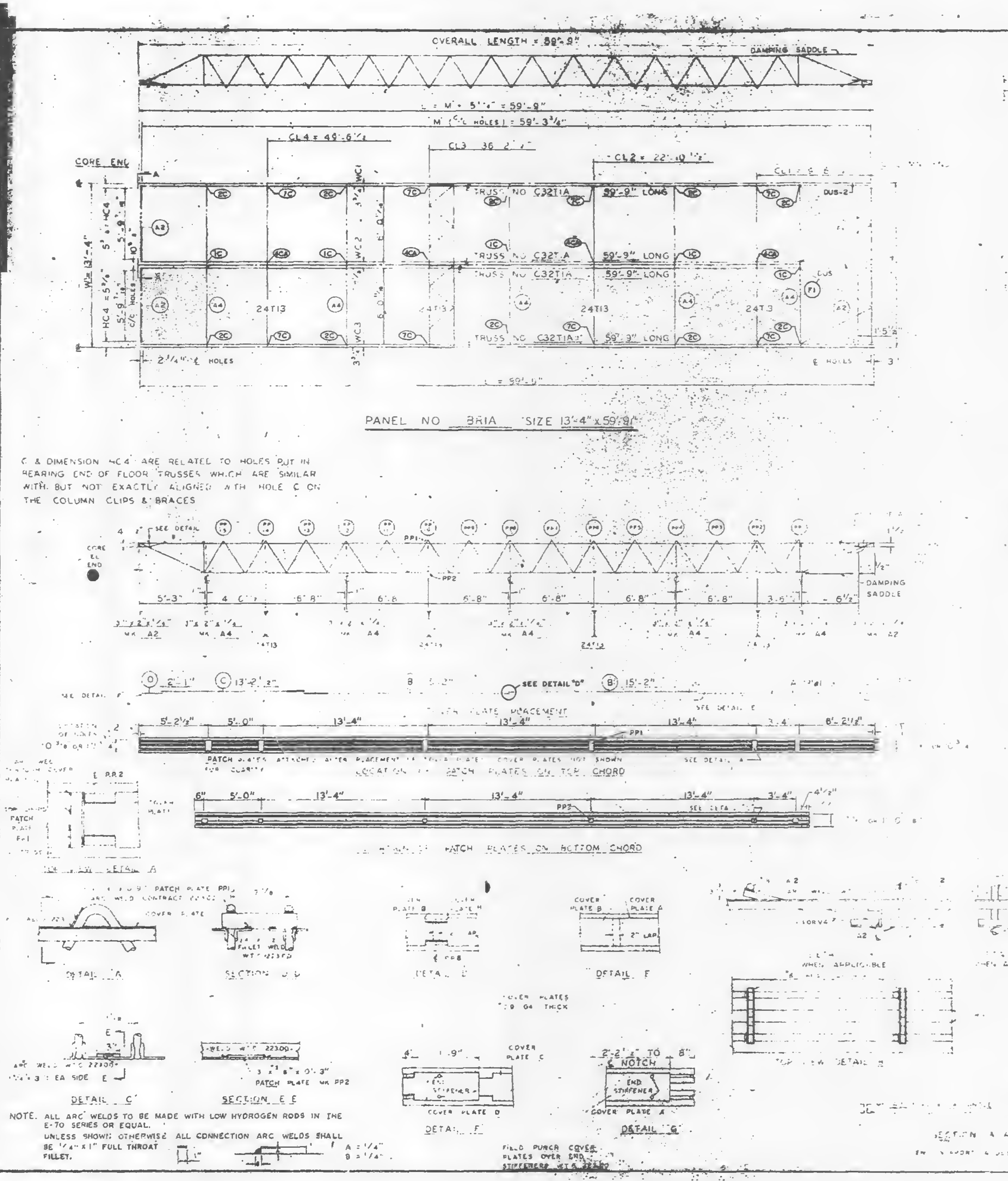
REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-24-68
△1 7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-24-68
7-AB2-8	7-24-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 39-40 (NORTH & SOUTH)
PANEL B1G - 13'-4" x 58'-11"
△1 BLDG. B FLOORS 39-40 (EAST & WEST)

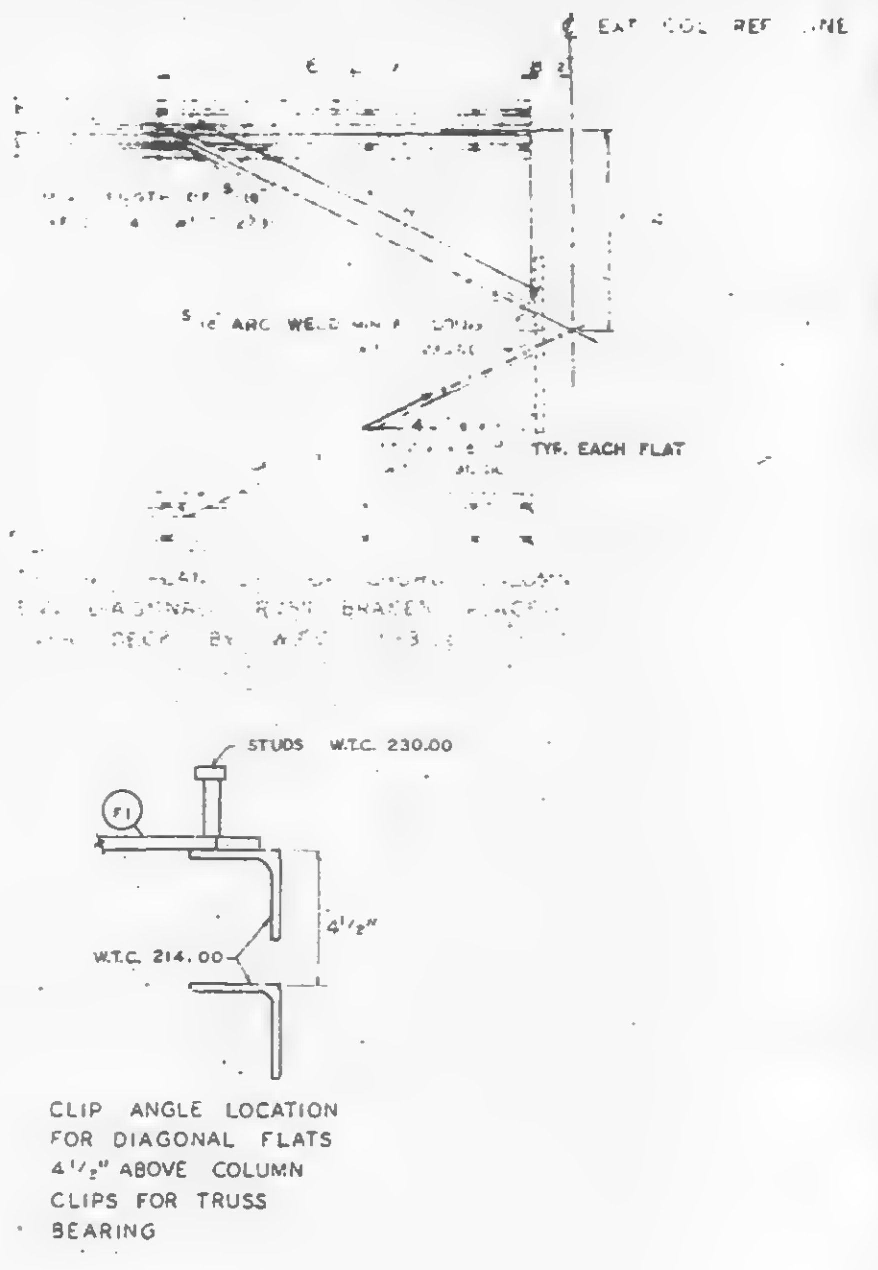
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-5	
APPROVED FOR FABRICATION BY James Lol... ON RA...	DATE 1/2/70	DRAWN BY	DATE
APPROVED FOR FABRICATION BY ... FABRICATOR	DATE	CHECKED BY	DATE
DETAILED BY [redacted]		FABRICATION CONT. #	



C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"



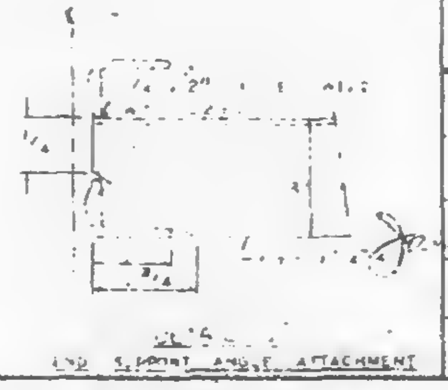
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	4	C32T1A 59'-9"	ST201A
[illegible]	T3	4	24T13 13'-3	ST219
[illegible] ANGLE	A2	4	[illegible]	ST403
	A4	5	[illegible] 3	ST403
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]	ST402
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
[illegible] PLATES	A	2	9" x 0.035" x [illegible]	ST303
	B	4	9" x 0.035" x 15'-2	ST303
	C	2	9" x 0.035" x 13'-2 1/2	ST303
	D	2	9" x 0.035" x 2'-1"	ST303
[illegible]	[illegible]	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
# [illegible]	SA2	8	#8 REBAR x 0'-3	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST29B
	DUS 2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST29B
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

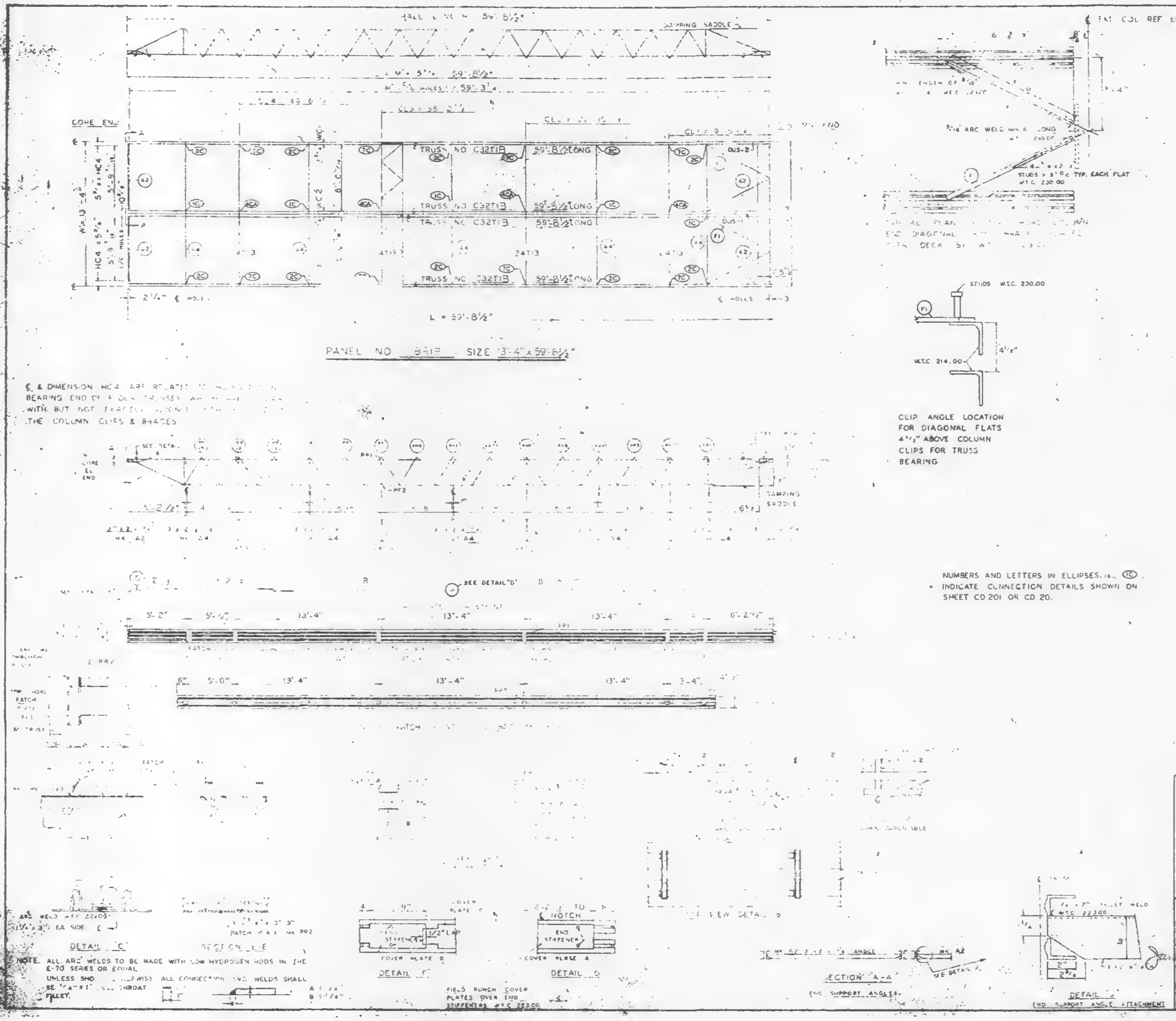
NO.	DATE	REVISION	BY
1	7-15-68	GENERAL	TMC

2,3,1 & 30 [illegible]
A 6 5-6-68
42 4-1-68



FOR
NEW YORK AUTHORITY
BLDG A [illegible] 28, [illegible] 66, 58
89 NORTH
PANEL BR1A 13'-4" x 59'-9"

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO [illegible] 4-1-68 PLATE
APPROVED FOR FABRICATION BY [illegible] DATE 8/16/68
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R.PAIN DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR1A



℄ & DIMENSION HC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES ... WITH BUT NOT EXACTLY ALIGNED ... THE COLUMN CLIPS & BRACES

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" ... THROAT FILLET.

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 20.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DWG
FLOOR TRUSSES	T18	4	C32T18 - 59'-8½"	ST601A
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1½"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9"x.0135"x13'-11½"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2½"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1½"x1/4"x0'-6"	ST400
#8 SHEAR-ANCHOR	SA2	8	#8 REBAR x 0'-8"	ST400
DAMPING SADDLE	DUS-1	1	3½"x3½"x3/8"x3'-6 7/8"	ST298
	DUS-2		3½"x3½"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"⌀x1'-3"	ST400
CONNECTION PLATES	P1	5	3½"x5/8"x8½"	ST400
	P2	4	4½"x.30"x0'-9"	ST400
	P3	4	4½"x.30"x1'-0"	ST400

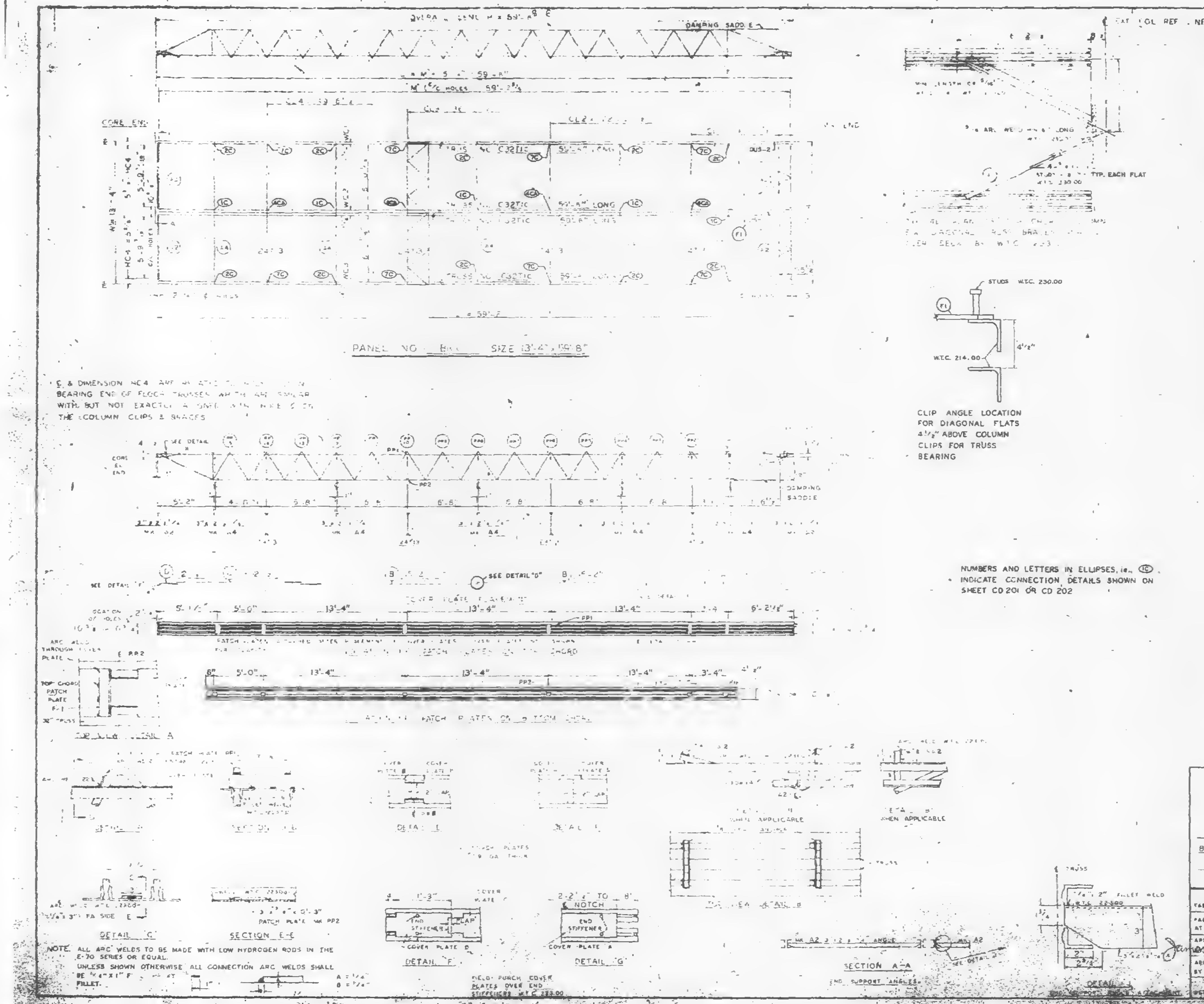
NO.	DATE	REVISION	BY

7-22-66
10-15-68
10-11-68
7-22-66

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 83-91, 93 (Q.A.V.)
PANEL 8H1B - 13'-4" x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-483-63 7-22-66	PLATE
APPROVED FOR FABRICATION BY James W White FOR P.O.N.Y.A.	DATE 11/11/68	DRAWN BY ... DATE 10-22-68	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. HURA DATE 10-22-68	IN CHARGE OF
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONTR. NO. W.T.C. 221	SHEET NO.



℄ & DIMENSION HC4 ARE [illegible] BEARING END OF FLOOR TRUSSES [illegible] WITH BUT NOT EXACTLY A [illegible] THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" [illegible] FILLET.
A = 1/4"
B = 3/16"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	TC	4	C32T1C - 59'-8"	ST201C
BRIDGING TRUSSES	[illegible]	4	24T13 - 13'-3"	ST213
[illegible] ANGLE	A2	6	3 x 2 x 1/4 x 5'-1 1/8"	ST403
	A4	5	3 x 2 x 1/4 x 13'-3"	ST403
DIAGONAL FLATS		4	[illegible] x 6'-8"	ST402
PATCH PLATES	PP1	12	2 x 1/4 x 0'-9"	ST 400
	PP2	12	3 x 3/8 x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.35" x 13'-1 1/2"	ST303
	B	4	6" x 0.35" x 15'-2"	ST303
	C	2	9" x 0.35" x 13'-2 1/2"	ST303
	[illegible]	2	9 x 0.35 x 2'-1"	ST303
ANGLE CLIPS		16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

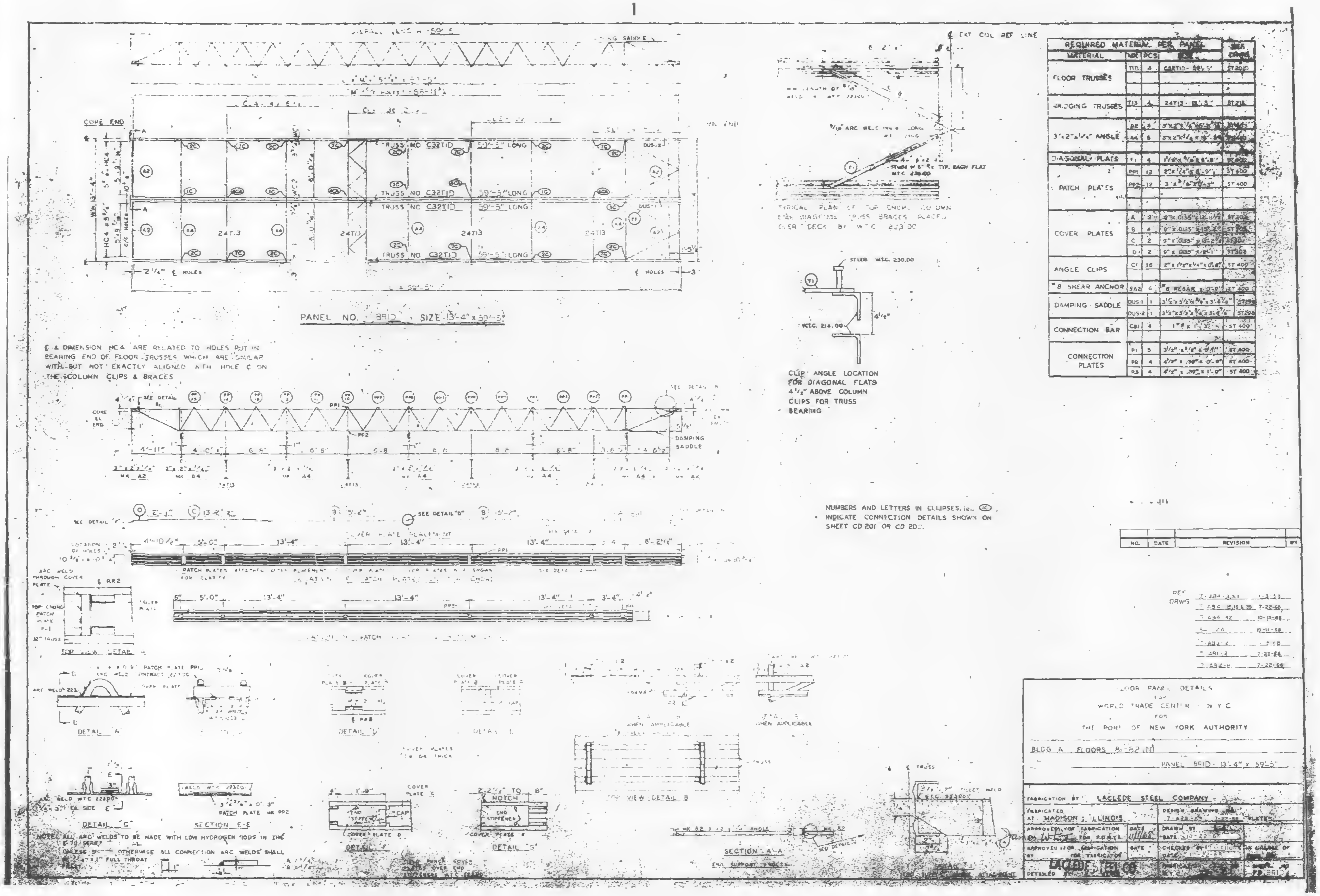
NO.	DATE	REVISION	BY

REF DRWG
7-A84-3,3,1 1-3-69
7-A84-45-16 & 39 7-22-68
7-A84-42 10-15-68
[illegible] 24 10-11-68
7-A84-2 1-3-69
7-A[illegible]-2 7-22-68
7-A82-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 49-[illegible] 66, [illegible]-74, 79-91 [illegible]
PANEL B[illegible]C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-[illegible] 7-22-68 PLATE [illegible]
APPROVED FOR FABRICATION James [illegible] FOR P.O.N.Y.A. DATE 11/1/68
DRAWN BY [illegible] DATE 10-22-68
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE [illegible]
CHECKED BY T.W. CHURA DATE 10-22-68 IN CHARGE OF [illegible]
LACLEDE STEEL CO.
FABRICATION [illegible] W.T.C. [illegible]
[illegible] B[illegible]C



PANEL NO. 8R1D SIZE 13'-4" x 59'-5"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie.. ⓘⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTES: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	SEE DRWG
FLOOR TRUSSES	T1D	4	C32T1D - 59'-5"	ST 2010
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-5"	[illegible]
	A4	5	3"x2"x1/4"x13'-[illegible]	[illegible]
DIAGONAL PLATS	F1	4	1 1/4"x 3/8"x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x 1/4"x 0'-9"	ST 400
	PP2	12	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	2	9"x 0135" x 13'-11 1/2"	ST 303
	B	4	9" x 0135" x 13'-4"	ST 303
	C	2	9"x 0135" x 13'-2 3/4"	ST 303
	D	2	9" x 0135" x 8'-1"	ST 303
ANGLE CLIPS	C1	16	2"x 1 1/2"x 1/4"x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x 3 1/2"x 3/8"x 3'-8 7/8"	ST 298
	DUS-2	1	3 1/2"x 3 1/2"x 3/4"x 5'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-4"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

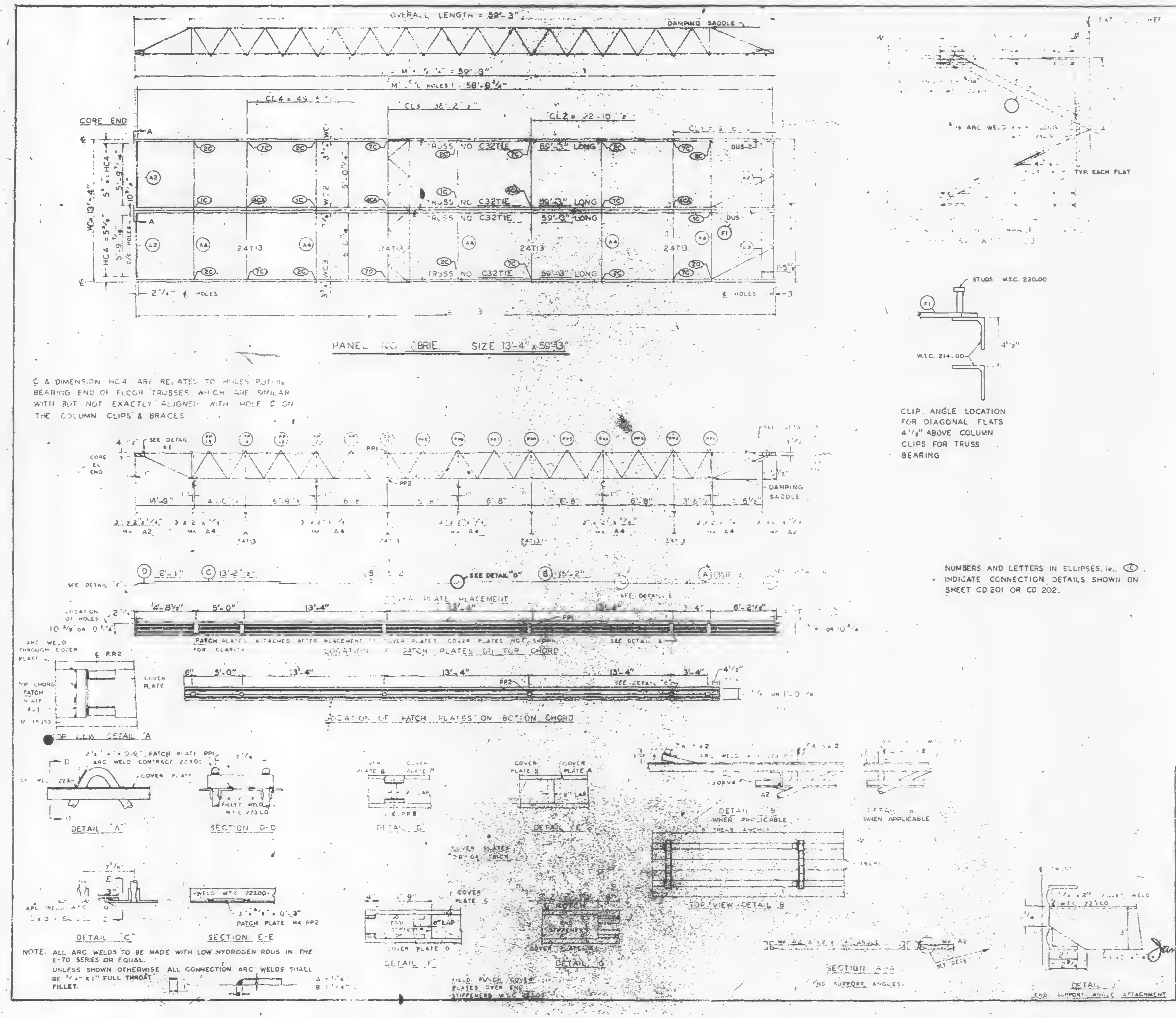
NO.	DATE	REVISION	BY

REF DRWGS
7-AB4-3,3.1 1-3-68
7-AB4-15,16 & 39 7-22-68
7-AB4-42 10-15-68
S-24 10-11-68
7-AB2-2 [illegible]
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 (N)
PANEL 8R1D - 13'-4" x 59'-5"

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-6? 7-22-68 PLATE
APPROVED FOR FABRICATION James Whitey FOR P.O.N.Y.A. DATE 11/1/68
DRAWN BY [illegible] DATE 10-22-68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHIC DATE 10-22-68
IN CHARGE OF
LACLEDE STEEL CO.
DETAILED
SHEET NO. FP 8R1D



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP. ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⑴ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS.	SIZE	
FLOOR TRUSSES	[illegible]	4	C32TE 59'-3"	ST201D
[illegible]	T-3	4	24T13 3	BT213
[illegible] ANGLE	A2	4	[illegible]	ST403
	A4	5	[illegible]	ST403
[illegible] PLATES	[illegible]	4	[illegible]	ST402
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	3 x 3/8 x 0'-3"	ST400
[illegible]	[illegible]	2	[illegible]	ST303
	B	4	9" x .0135" x 13'-2"	ST303
	[illegible]	2	9" x .0135" x 13'-2 1/2"	ST303
	[illegible]	2	9" x .0135" x 2'-1	ST303
[illegible]		16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
[illegible]	SA2	6	#6 REBAR x 0'-[illegible]	ST400
[illegible]	[illegible]	[illegible]	3 1/2" x 2" x 5/8" x 1'-6 7/8"	ST298
	[illegible]	[illegible]	3 1/2" x 2" x 3/8" x 3'-8 7/8"	ST298
[illegible] BAR	CB1	4	[illegible] x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

NO.	DATE	REVISION	BY
⚠1	7-15-68	GENERAL	T.M.C.

[illegible] 13.1 & 30 [illegible]
[illegible] 5-6-68
[illegible] A2 4-1-68
[illegible] 29-67
[illegible] 3-68
[illegible] 7-5-68
[illegible] 62

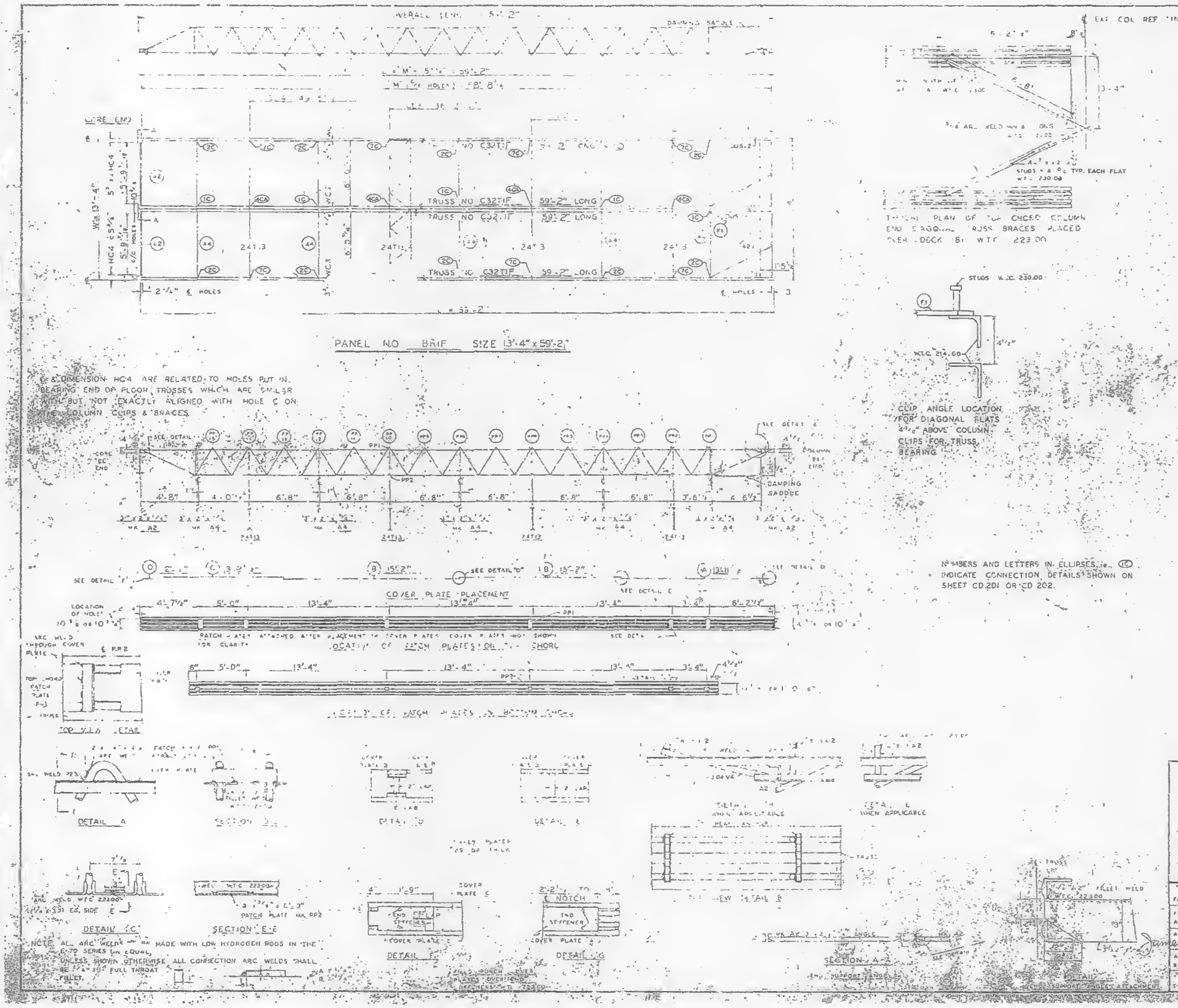
[illegible] DETAILS
[illegible]
[illegible] TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS [illegible]
PANEL 3BRIE - 13'-4" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-483 6 4-1-68 PLATE
APPROVED FOR FABRICATION FOR PONYA James White DATE 8/16/68
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR LACLEDE STEEL CO. DATE
CHECKED BY J.R.PAUL DATE FEB 24, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO FF-3BRIE

0100-0179

WTC1-131-L22A


PANEL NO. BRIF SIZE 13'-4" x 59'-2"
CORE END
TRUSS NO. C32T1F 59'-2" LONG
TRUSS NO. C32T1F 59'-2" LONG
TRUSS NO. C32T1F 59'-2" LONG
24T13
DAMPING SADDLE
2 1/4" ℄ HOLES
COVER PLATE PLACEMENT
TYPICAL PLAN OF THE CHORD COLUMN END DIAGONAL RUSS BRACES PLACED OVER DECK 8' WTC 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
STUDS W.C. 230.00
DETAIL A
SECTION B-B
DETAIL D
DETAIL E
DETAIL C
SECTION E-E
ARC WELD WTC 22200
PATCH PLATE MK PP2
DETAIL F
DETAIL G
SECTION A-A
TOP VIEW DETAIL

HC4 & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓘⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS ARE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 3/8" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T-F	4	C32T1F - 59'-2"	ST201F
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
5" x 2" x 1/4 ANGLE	A2	4	5" x 2" x 1/4" x 5'-11"	ST403
	A4	5	5 x 2" x 1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/16" x 6'-8"	ST402
PATCH PLATES	PP1	12	2 x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-9"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-4	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST299
CONNECTION BAR	CB1	4	1" # x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-2"	ST400
	P2	4	4 1/2" x .30" x 0'-9"	ST400
	P3	4	4 1/2" x .30" x 4'-0"	ST400

NO.	DATE	REVISION	BY

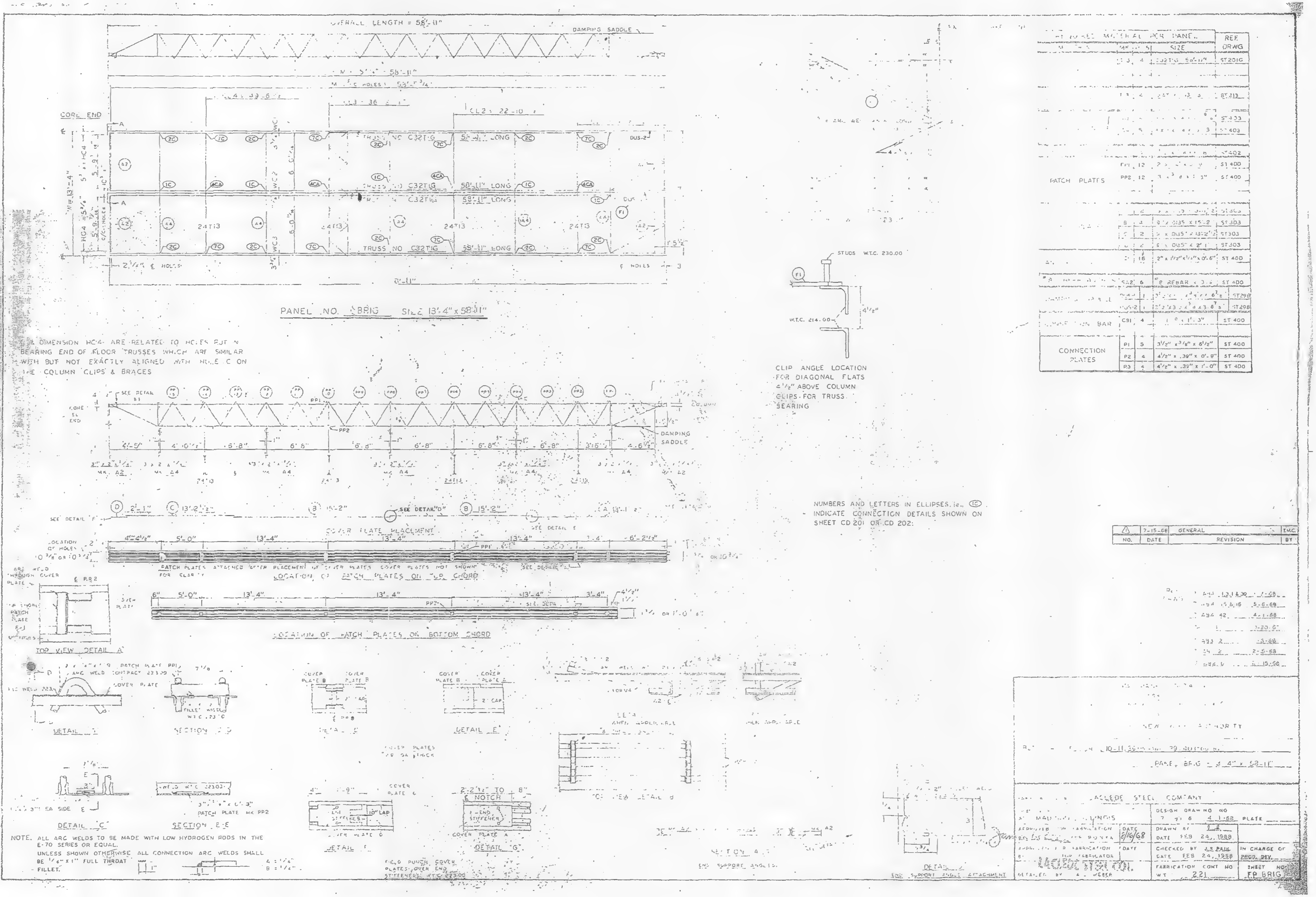
REF DRWG	
7-AB4-3.3.1	1-3-68
7-AB4-15-16 & 39	7-22-68
7-AB4-42	10-13-68
S4-24	10-11-68
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 47-48, 70-71(N) + 47-48(S)
PANEL BRIF - 13'-4" x 59'-2"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB2-6 7-22-68 PLATE	
APPROVED FOR FABRICATION James W. White FOR P.O.N.Y.A.	DATE 11/1/68	DRAWN BY	DATE 10-22-68
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. M. CHURA DATE 10-22-68	IN CHARGE OF
DETAILED BY		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP BRIF



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

& DIMENSION HC-4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

[illegible] MATERIAL PER PANEL				REF DRWG
		4	C32T1G 58'-11"	ST201G
		4	[illegible]	ST213
		[illegible]	[illegible]	ST403
		5	[illegible]	ST403
		[illegible]	[illegible]	ST402
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	[illegible]	ST400
	[illegible]	2	[illegible]	ST303
	B	4	[illegible] .0135 x 15'-2	ST303
	C	2	[illegible] x .035 x 13'-2 1/2	ST303
	D	2	[illegible] x .035 x 2'-1	ST303
	[illegible]	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
	SA2	6	#8 REBAR x [illegible]	ST400
DAMPING SADDLE	DUS-1	1	[illegible] 6 7/8	ST298
	DUS-2	1	[illegible] x 3-6 7/8	ST298
[illegible] BAR	CB1	4	[illegible] x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

NO.	DATE	REVISION	BY
1	7-15-68	GENERAL	T.M.C.

NEW [illegible] AUTHORITY

PANEL BRIG 13'-4" x 58'-11"

LACLEDE STEEL COMPANY

[illegible] ILLINOIS

DATE 8/16/68

DESIGN DRAWING NO. 4-1-68 PLATE

DRAWN BY [illegible] DATE FEB 24, 1968

CHECKED BY J.S. PAUL DATE FEB 24, 1968

IN CHARGE OF PROD. DIV.

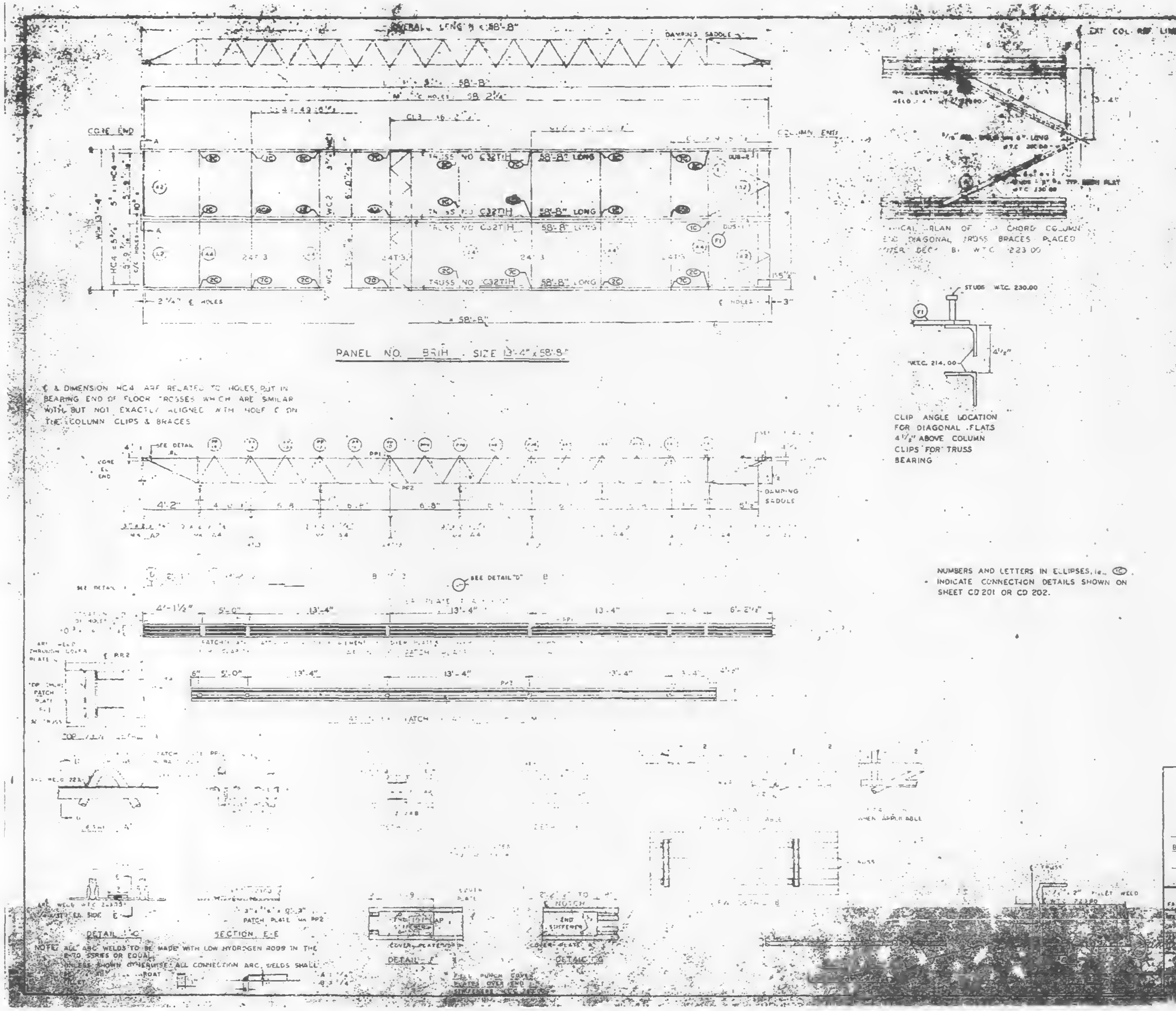
LACLEDE STEEL CO.

DETAILED BY A. WEBER

FABRICATION CONT NO

WT 221

SHEET NO FP BRIG



PANEL NO. 8R1H . SIZE 13'-4" x 58'-8"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED AFTER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

DETAIL "C"

SECTION E-E

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" FILLET

FLOOR TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	4	24T3 [illegible]	[illegible]
3½" x 2" x ¼" ANGLE	A2	4	[illegible]	[illegible]
	A4	5	[illegible]	[illegible]
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2½"	ST303
	D	2	9" x .0035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-0"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST290
	DUS-2	1	3½" x 3½" x ⅜" x 3'-8⅞"	ST290
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	2½" x ⅜" x 0'-8½"	ST 400
	P2	4	4½" x .30" x 0'-8"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3,3,1	-3-68
7-AB4-15,16,&38	7-22-68
7-AB4-42	10-15-68
SA-14	10-11-68
7-AB3-2	-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

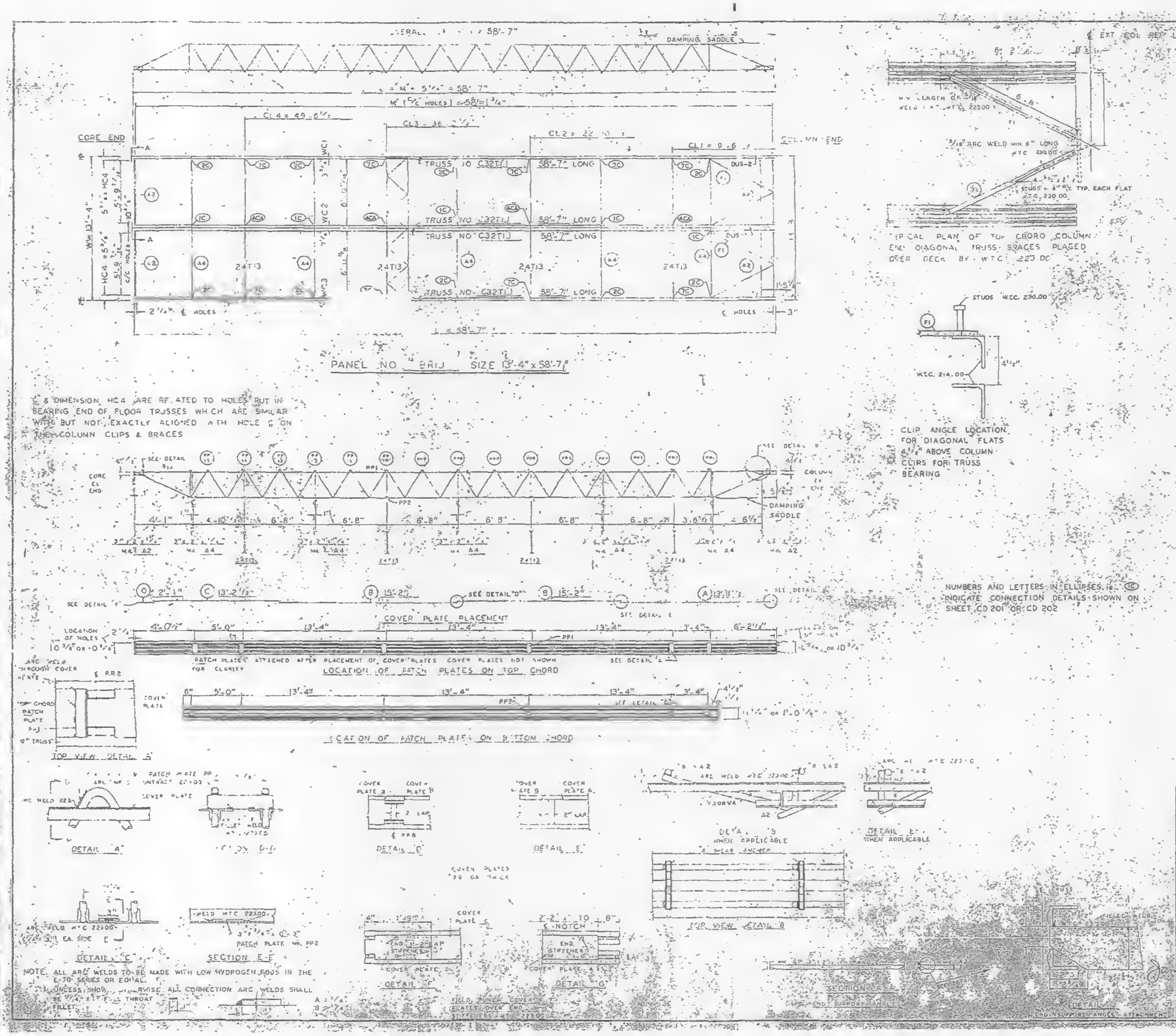
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80(N)
PANEL 8R1H · 13'-4" x 58'-8"

FABRICATION BY LACLEDE STEEL COMPANY

7-22-68
10-22-68
10-22-68

8R1H


CORE END
COLUMN END
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-0"
CL1 = 9'-6"
TRUSS NO C32TIJ 58'-7" LONG
24T13
DAMPING SADDLE
Ɛ HOLES
L = 58'-7"
PANEL NO BRIJ SIZE 13'-4" x 58'-7"
CORE Ɛ END
PP1
PP2
COLUMN
SEE DETAIL
COVER PLATE PLACEMENT
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "J"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "F" WHEN APPLICABLE
COVER PLATES 22 GA THICK
TOP VIEW DETAIL "B"
ARC WELD WTC 22300 3" EA SIDE
DETAIL "C"
WELD WTC 22300
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
NOTCH
END STIFFENER
DETAIL "G"
5/16 ARC WELD MIN 6" LONG WTC 230.00
4 - 3/4" x 2" STUDS @ 8" O.C. TYP. EACH FLAT WTC 230.00
STUDS WTC 230.00
WTC 214.00
4 1/2"
Ɛ EXT COL REF LINE

Ɛ & DIMENSION HC4 ARE RELATED TO HOLES BUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Ɛ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1 1/2" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANELS				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIJ	4	C32TIJ - 58'-7"	ST201J
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3" x 2" x 1/4" ANGLE	A2	24	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 8'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 13'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	5	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 5/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST400
	P2	4	4 1/2" x .30" x 0'-9"	ST400
	P3	4	4 1/2" x .30" x 1'-0"	ST400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4 3,3,1	1-3-68
7-AB4 - 5,16 & 39	7-22-68
7-AB4 42	10-15-68
SA 124	10-11-68
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

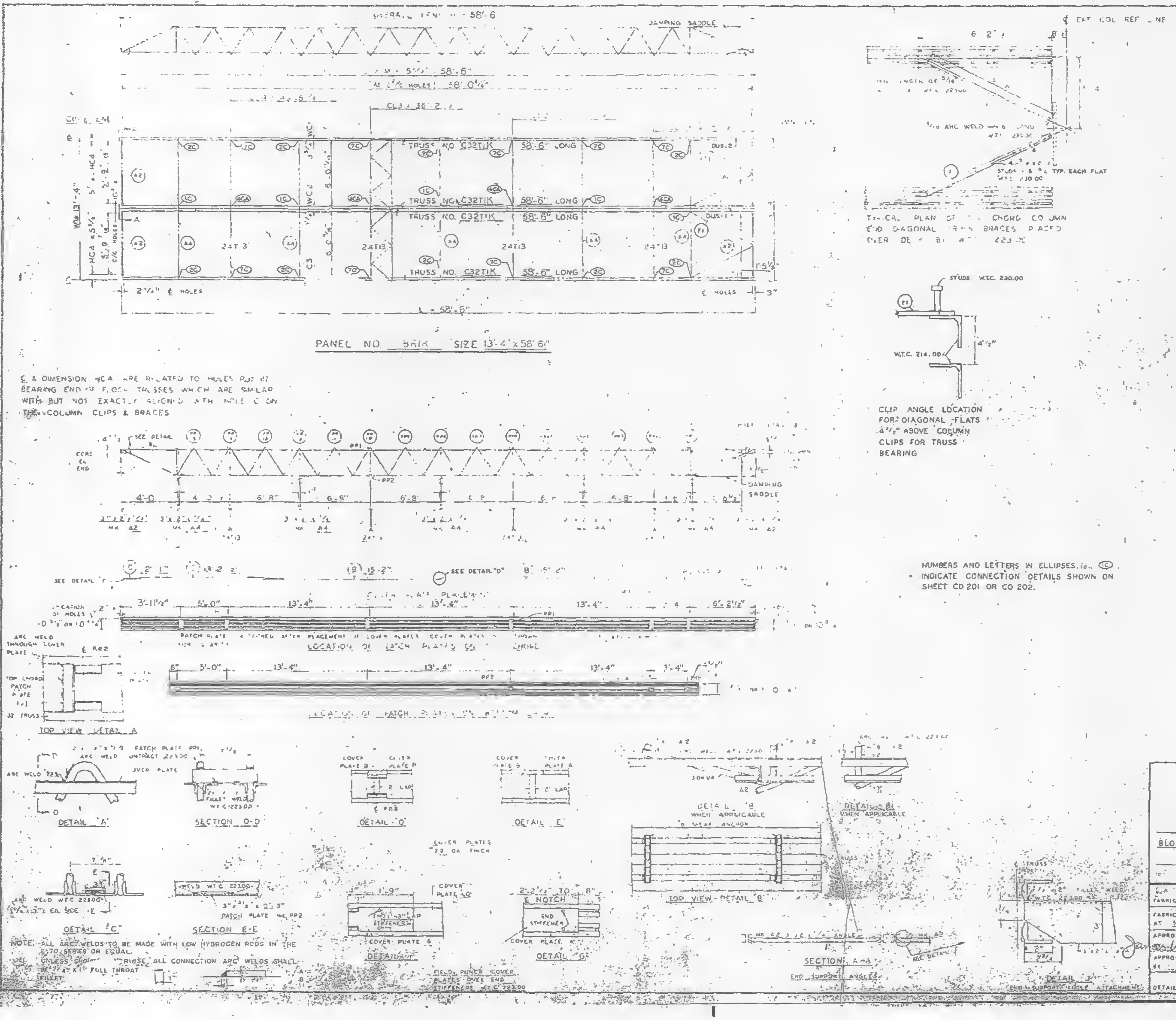
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 40(N)

PANEL BRIJ - 3'-4" . 58'-7"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING 7-AB3-6 7-22-68	
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 11/1/68	DRAWN BY DATE 10-22-68	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE 10-22-68	IN CHARGE OF
DETAILED BY		FABRICATION CONT. NO. W.T.C. 221	SHEET NO.



PANEL NO. 5B1K SIZE 13'-4" x 58'-6"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF ... CHORD COLUMN END DIAGONAL ... BRACES PLACED OVER DETAIL B W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1K	4	C32T1K - 58'-6"	ST 201K
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 218
3 x 2 x 1/4 ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 13'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE, CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 296
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 296
CONNECTION BAR	CB1	4	1 1/8" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

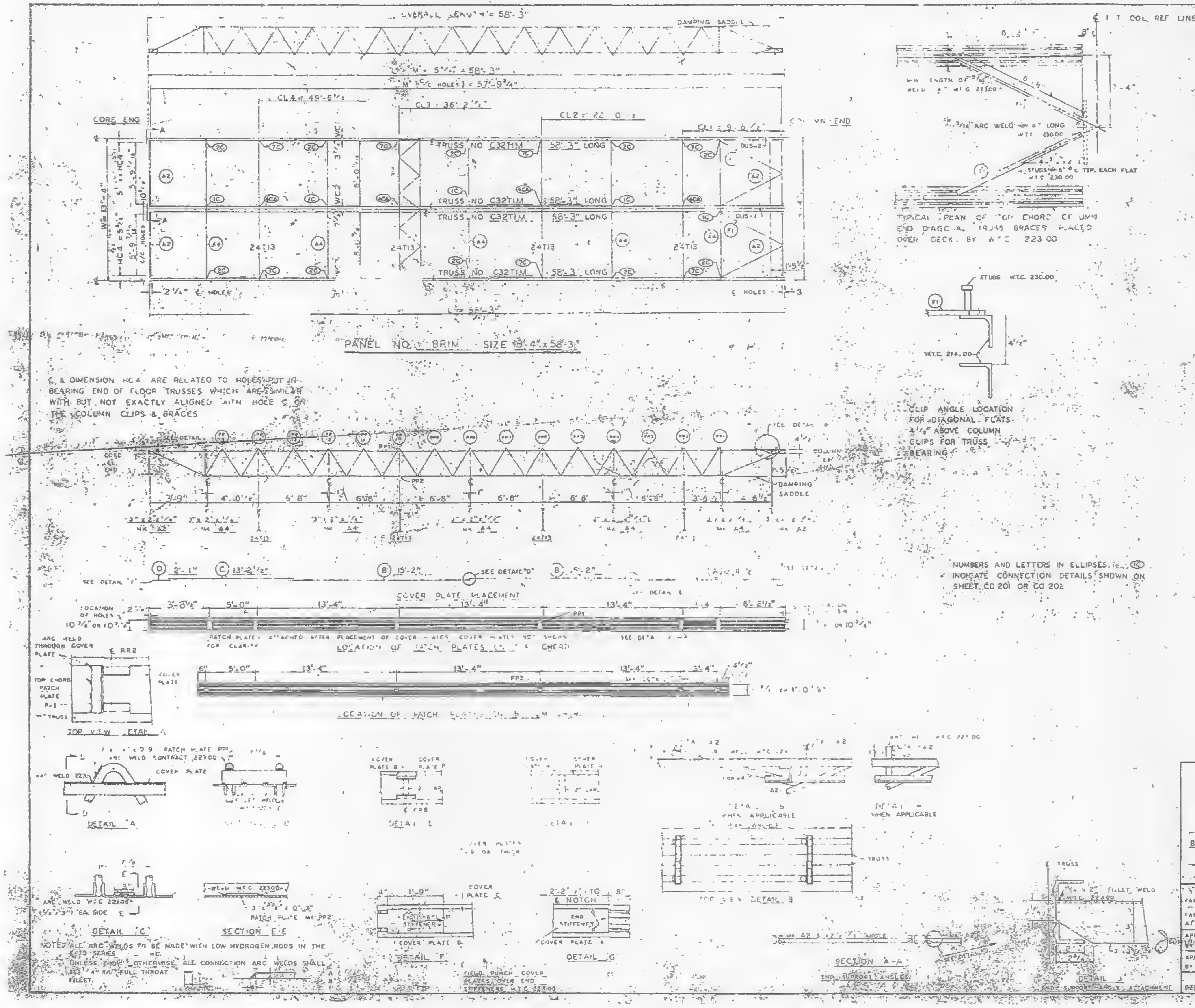
NO.	DATE	REVISION	BY

REF DRWG	
7 AB4 3,3,1	1-3-68
7 AB4 15,18 & 39	7-22-68
7 AB4 42	10-5-68
SA 24	10-11-68
7 AB3 2	1-3-68
7 AB1-2	7-22-68
7 AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 46(N) + 45-46 (S)
PANEL 5B1K - 13'-4" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-6 7-22-68 PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 11/1/68
DRAWN BY DATE 10-22-68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE 10-22-68 IN CHARGE OF
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FD 5B1K



PANEL NO. 8RIM SIZE 13'-4" x 58'-3"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1/4" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1M	4	C32T1M - 58'-3"	ST201V
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3" x 2" x 1/4" ANGLE	A2	14	3" x 2" x 1/4" x 5'-11 5/16"	ST403
	A4	5	3" x 2" x 1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/4" x 5/8" x 5'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	[illegible]	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 5 1/2"	ST 400
	P2	[illegible]	4 1/2" x .239" x 0'-9"	ST 400
	P3	4	4 1/2" x .239" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

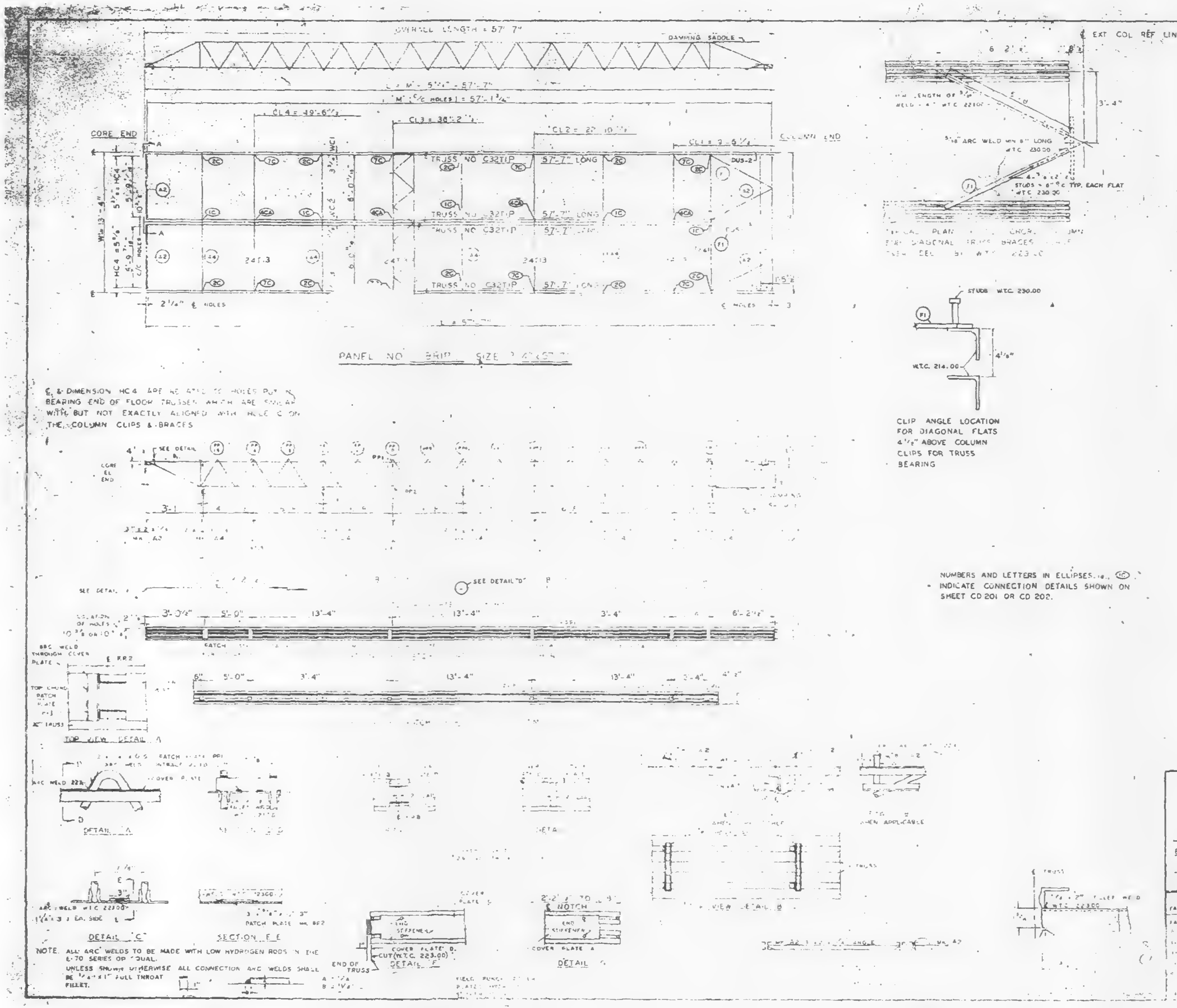
REF DRWG

7 A84 3,3	1-3-68
7-A84-15,16 & 39	7-22-68
7 A84 42	10-15-68
S[illegible] 14	10-11-68
7-A84-2	1-3-68
7-A81-2	7-22-68
7 A82 6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73(N)
PANEL 8RIM - 13'-4" x 58'-3"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-A89-6 7-22-68 PLATE [illegible]
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 11/1/68
DRAWN BY [illegible] DATE 10-22-68
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE [illegible]
CHECKED BY T.M. CHURA DATE 10-22-68
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET [illegible]



CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4½" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

℄ & DIMENSION HC4 ARE RE ATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼"×1" FULL THROAT FILLET.

REQUIRED MATERIAL

MATERIAL	MK.	PCS		
FLOOR TRUSSES	T1P	4	[illegible]	[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	[illegible]
3"×2"×¼" ANGLE	A2	4	3"×2"×¼"×5'-11⅛"	ST 400
	A4	3	3"×2"×¼"×13'-[illegible]	ST 400
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	2"×¼"×0'-0"	ST 400
	PP2	12	3"×¼"×0'-3"	ST 400
COVER PLATES	A	2	0"×.035"×13'-11½"	ST 303
	B	4	0"×.035"×13'-2"	ST 303
	C	2	0"×.035"×13'-2½"	ST 303
ANGLE CLIPS	C1	18	2"×1½"×¼"×0'-6"	ST 400
#81 SHEAR ANCHOR	SA2	5	#8 REBAR × 0'-[illegible]	ST 400
DAMPING SADDLE	DUS-1	1	3½"×3½"×⅜"×3'-6⅛"	[illegible]
	DUS-2	1	3½"×3½"×⅜"×3'-6⅛"	[illegible]
CONNECTION BAR	CB1	4	1"#×1'-3"	ST 400
CONNECTION PLATES	P1	3	3½"×⅜"×0'-8"	ST 400
	P2	4	4½"×.30"×0'-0"	ST 300
	P3	4	4½"×.30"×1'-0"	ST 400

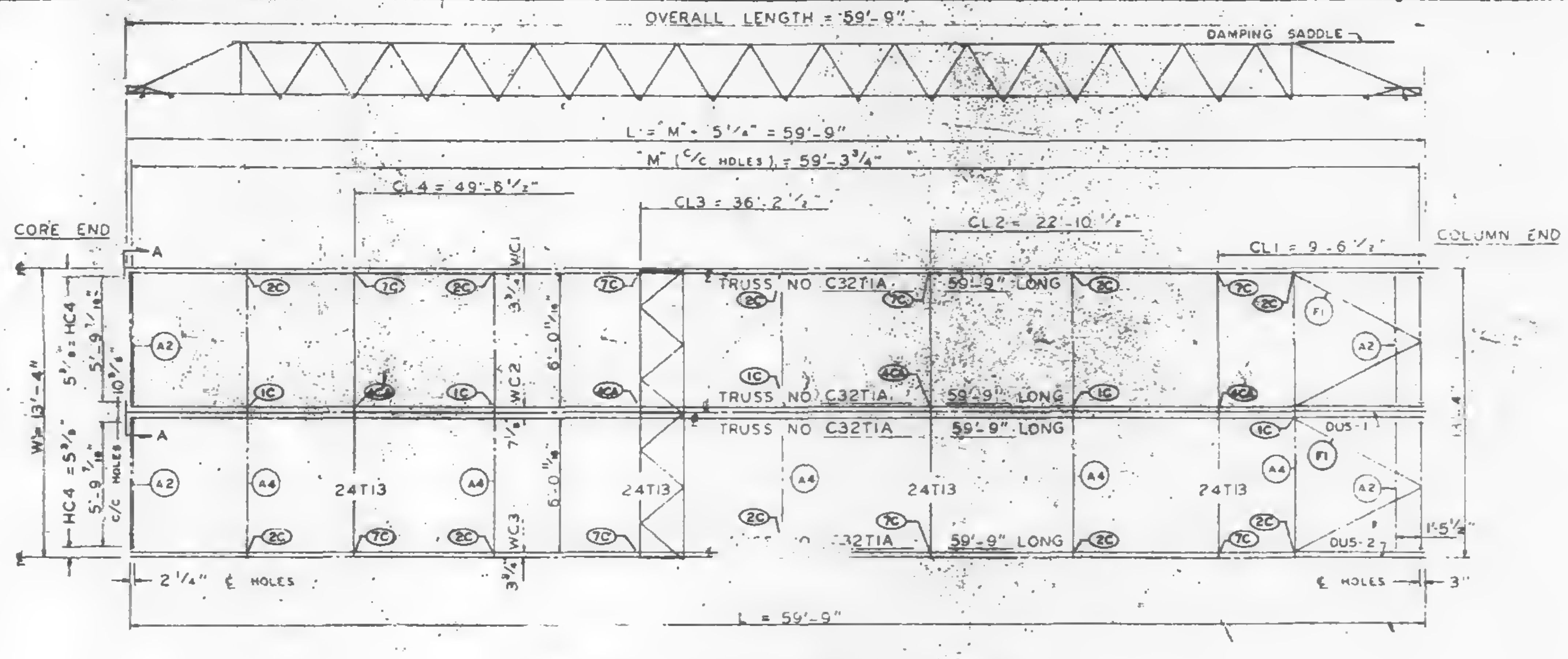
NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3.3.1	1-3-68
7-AB4-15,18&39	7-22-68
7-AB4-42	10-15-68
5A-124	10-11-68
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

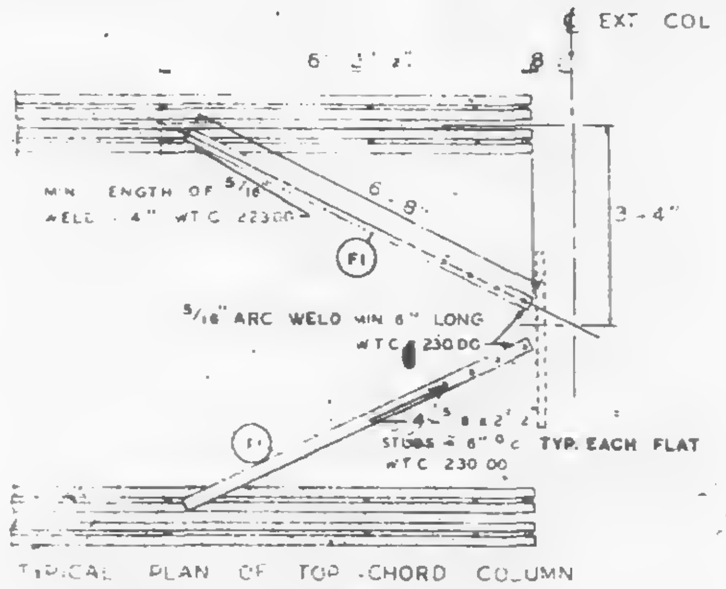
BLDG. A FLOORS 74 N)
PANEL 8R1P - 13'-4" x 57'-7"

FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO. 7-AB3 6 7-22-68 PLATE
DATE 11/1/68
DRAWN BY
DATE 10-22-68
CHECKED BY TSUCHIJRA
DATE 10-22-68
FABRICATION CONT NO. W.T.C. 221
SHEET FP 8R1P

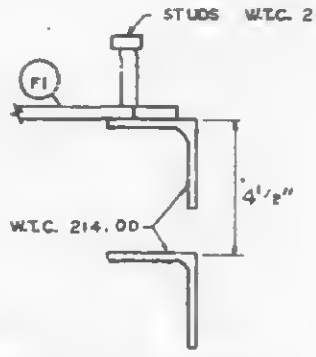


PANEL NO. B1A SIZE 13'-4" x 59'-9"

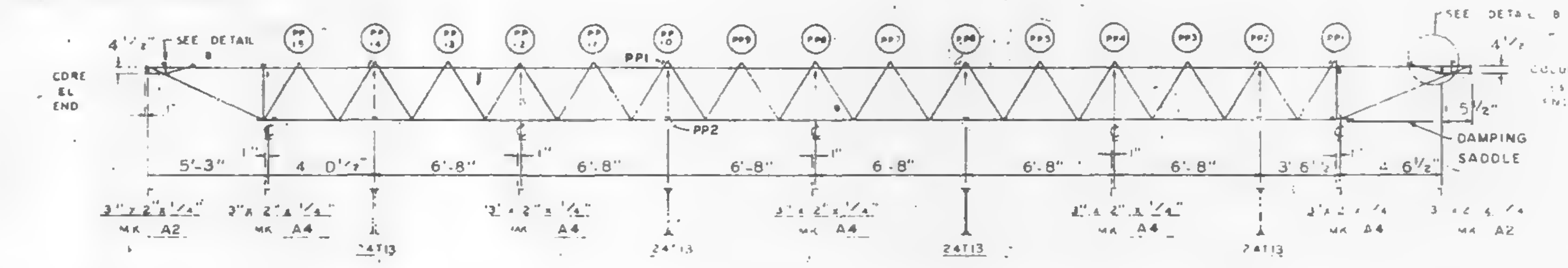
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

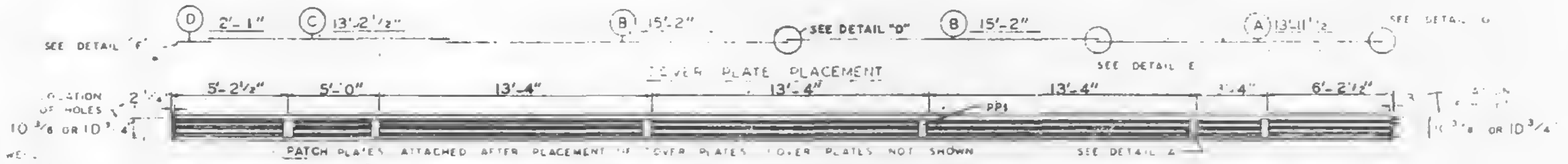

℄ EXT COL REF LINE
MIN LENGTH OF 5/16" WELD 4" WTC 22300
5/16" ARC WELD MIN 6" LONG WTC 230.00
STUDS @ 6" O.C. TYP. EACH FLAT WTC 230.00
F1
6'-8"
3'-4"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00

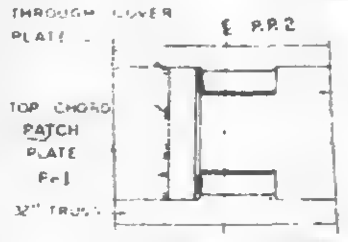


CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

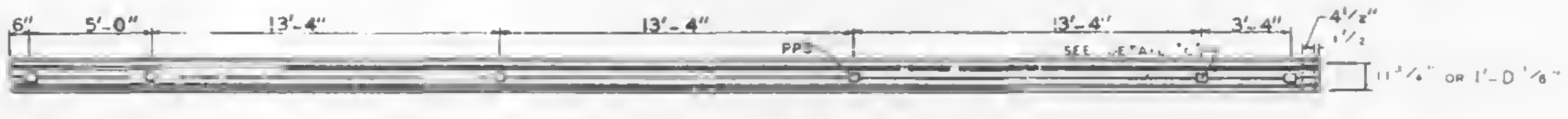




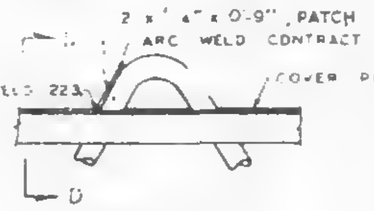
LOCATION OF PATCH PLATES ON TOP CHORD



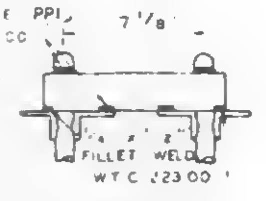
TOP VIEW DETAIL "A"



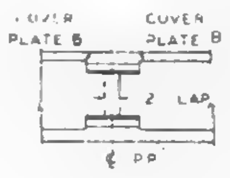
LOCATION OF PATCH PLATES ON BOTTOM CHORD



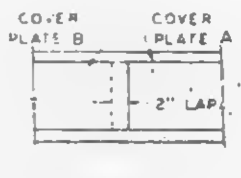
DETAIL "A"



SECTION D-D

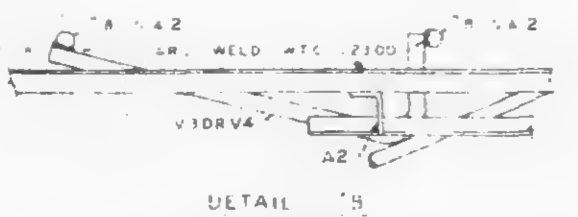


DETAIL "D"

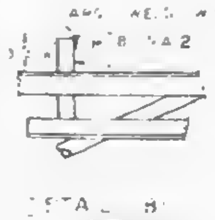


DETAIL "E"

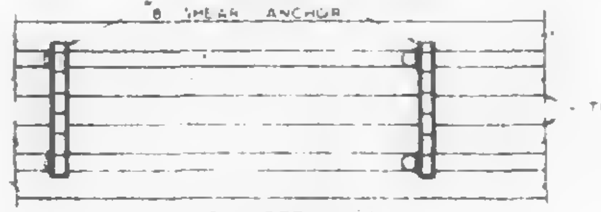
COVER PLATES 28 GA THICK



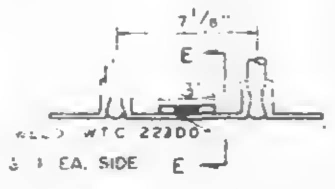
DETAIL "B" WHEN APPLICABLE



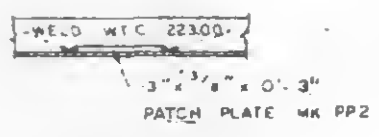
DETAIL "B" WHEN APPLICABLE



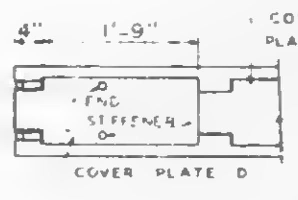
TOP VIEW DETAIL B



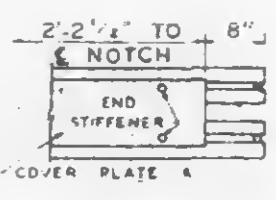
DETAIL "C"



SECTION E-E

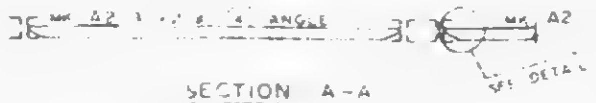


DETAIL "F"



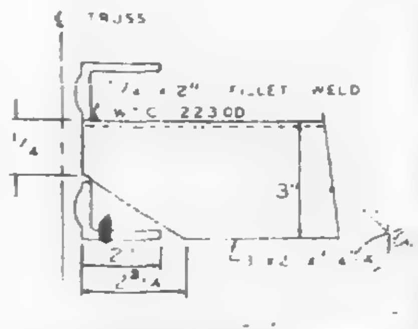
DETAIL "G"

FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00



SECTION A-A

END SUPPORT ANGLES



DETAIL "J"

END SUPPORT ANGLE ATTACHMENT

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CO 201 OR CO 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	4	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x 1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	7-15-68	GENERAL	T.M.C.

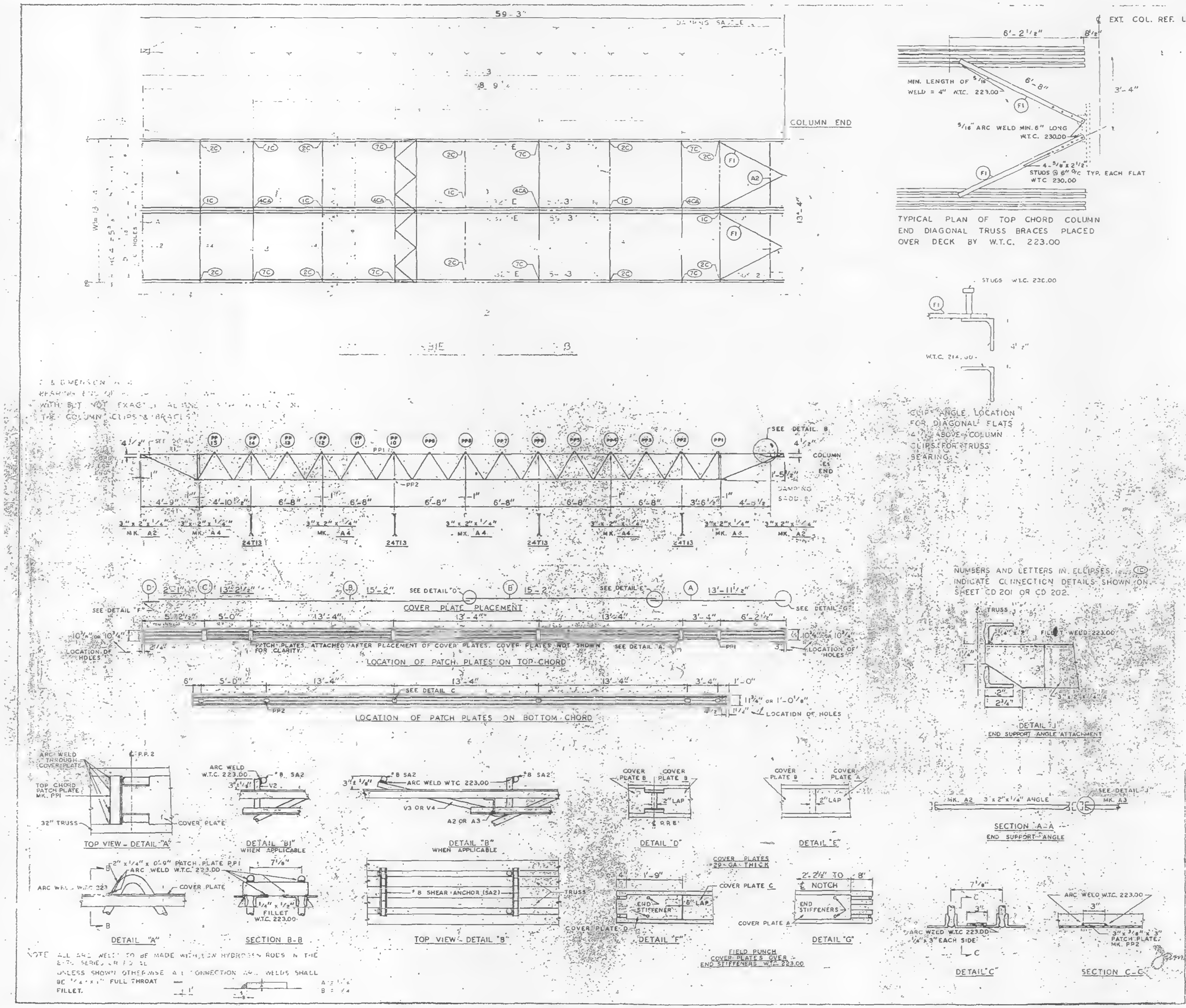
REF DRWG
7-AB4-3,3,1 & 39 1-3-68
7-AB4-15 & 16 5-6-68
7-AB4-42 4-1-68
SE-124 10-20-67
7-AB3-2 1-3-68
7-AB1-2 2-5-68
7-AB2-B 2-5-68

LACLEDE STEEL

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68
89 (NORTH) PANEL B1A - 13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-5 4-1-68 PLATE
APPROVED FOR FABRICATION FOR PONYA DATE 8/16/68	DRAWN BY DATE FEB. 24, 1968
APPROVED FOR FABRICATION BY [redacted] FOR FABRICATOR DATE	CHECKED BY J.B. PAUL DATE FEB. 24, 1968
DETAILED BY A.C. WEBER	FABRICATION CONT. W.T.C. 221
IN CHARGE OF PROD. DEV.	SHEET NO FP B1A



NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR E 2 ~~
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

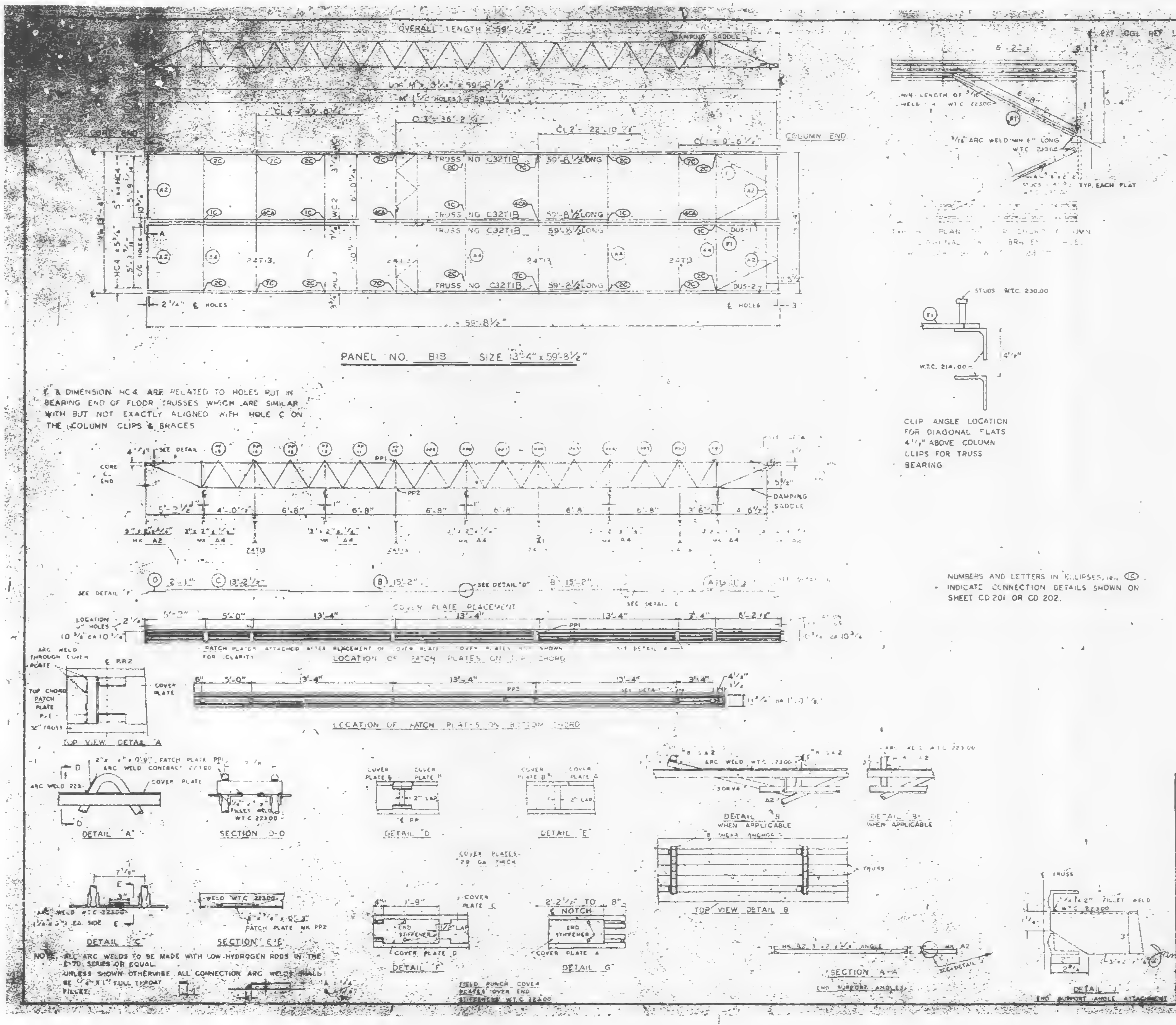
PATCH PLATES	PP1	12		ST 400
	PP2	12	3"	ST 400
COVER PLATES				
		16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
		8		ST 400
	C31	4	1'-3"	ST 400
CONNECTION PLATES	P1	5	7 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	7-15-68	GENERAL	T.M.C.

ABA 3,3,1 & 30
5-6-68
ABA 42 4-1-68

BLDG A FLOORS 10-11 (NORTH & SOUTH)

FABRICATED BY LACLEDE STEEL COMPANY
ST. LOUIS, ILLINOIS
APPROVED FOR FABRICATION 8/16/68
LACLEDE STEEL CO.
DRAWN BY
DATE FEB 24, 1968
CHECKED BY J.A. PAUL
DATE FEB 24, 1968
FABRICATION SHEET NO. 21
SHEET NO. FO 81E



PANEL NO. B1B SIZE 13'-4" x 59'-8 1/2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⓘC INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1B	4	C32T1B - 59'-8 1/2"	ST201B
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 3/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2"x [illegible] x 0'-9"	ST 400
	PP2	12	3"x [illegible] x 0'-3"	ST 400
[illegible] PLATES	A	2	9" x .035" x 13'-11 1/2"	ST303
	B	4	9" x .035" x 15'-2"	ST303
	C	2	9" x .035" x 13'-2 1/2"	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE [illegible]	[illegible]	16	[illegible] x 0'-6"	ST 400
[illegible]	SA2	8	[illegible] x 0'-9"	ST 400
DAMPING SADDLE	DUS 1	1	[illegible] x 3'-1 7/8"	ST298
	DUS 2	1	[illegible] x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

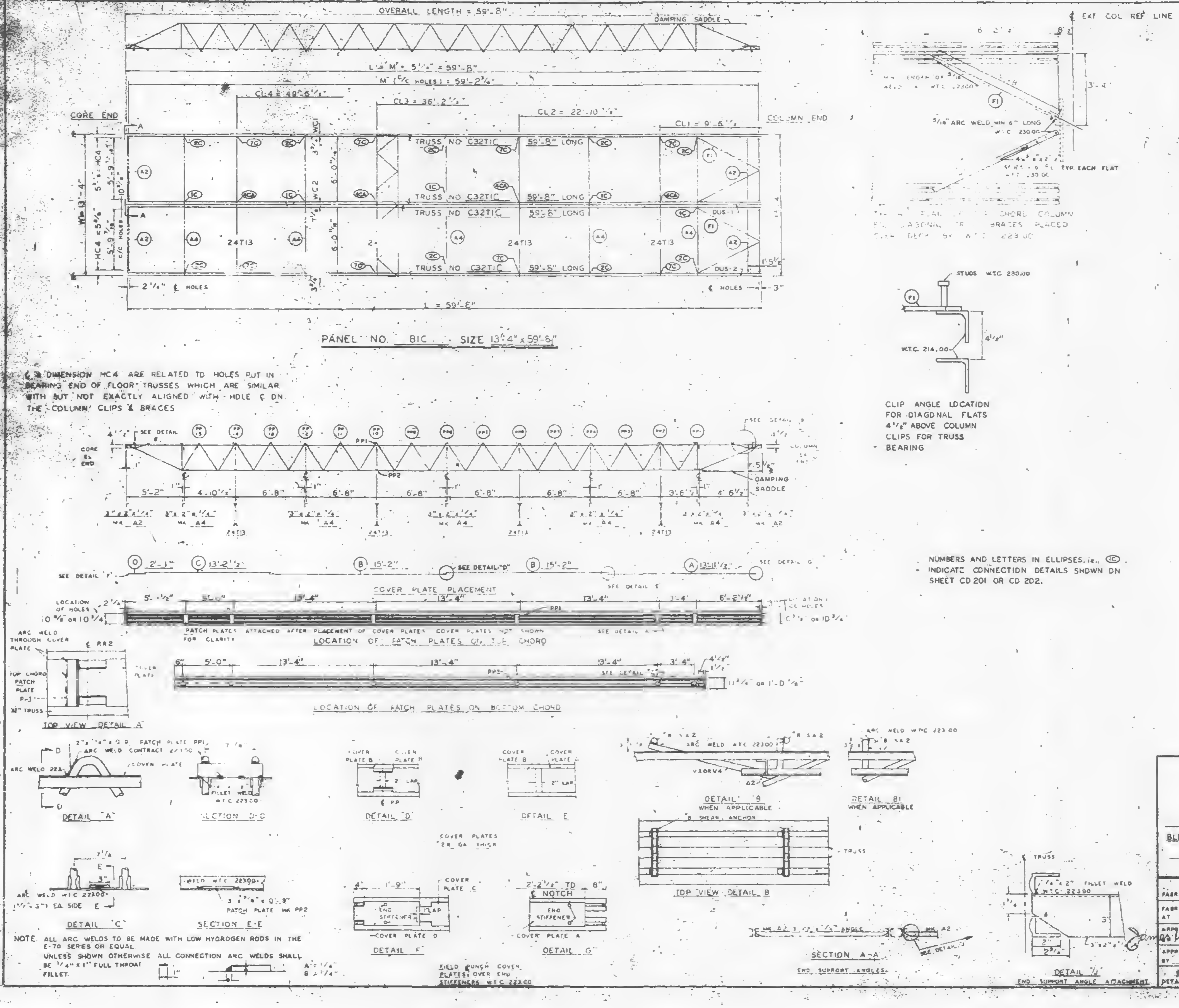
NO.	DATE	REVISION	BY

[illegible] 4-1-68
[illegible] 4-1-68
[illegible] 42 4-1-68
[illegible] 10-20-67
[illegible] A33.2 1-3-68
[illegible] 2 2-15-68
[illegible] A02.6 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (N)
PANEL B1B - 13'-4" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. [illegible] 4-1-68 PLATE	
APPROVED FOR FABRICATION James [illegible] FOR PONYA DATE 10/23/68	DRAWN BY [illegible] DATE OCT 5 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.U. [illegible] DATE OCT 5, 1968	IN CHARGE OF [illegible]
LACLEDE STEEL CO. DETAILED BY [illegible]	FABRICATION CONT. NO. W.T.C. 221	SHEET NO FB B1B



DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1C	4	C32T1C - 59'-8"	ST201C
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 5'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0135" x 13'-11 1/2"	ST303
	B	4	9" x 0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-6"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

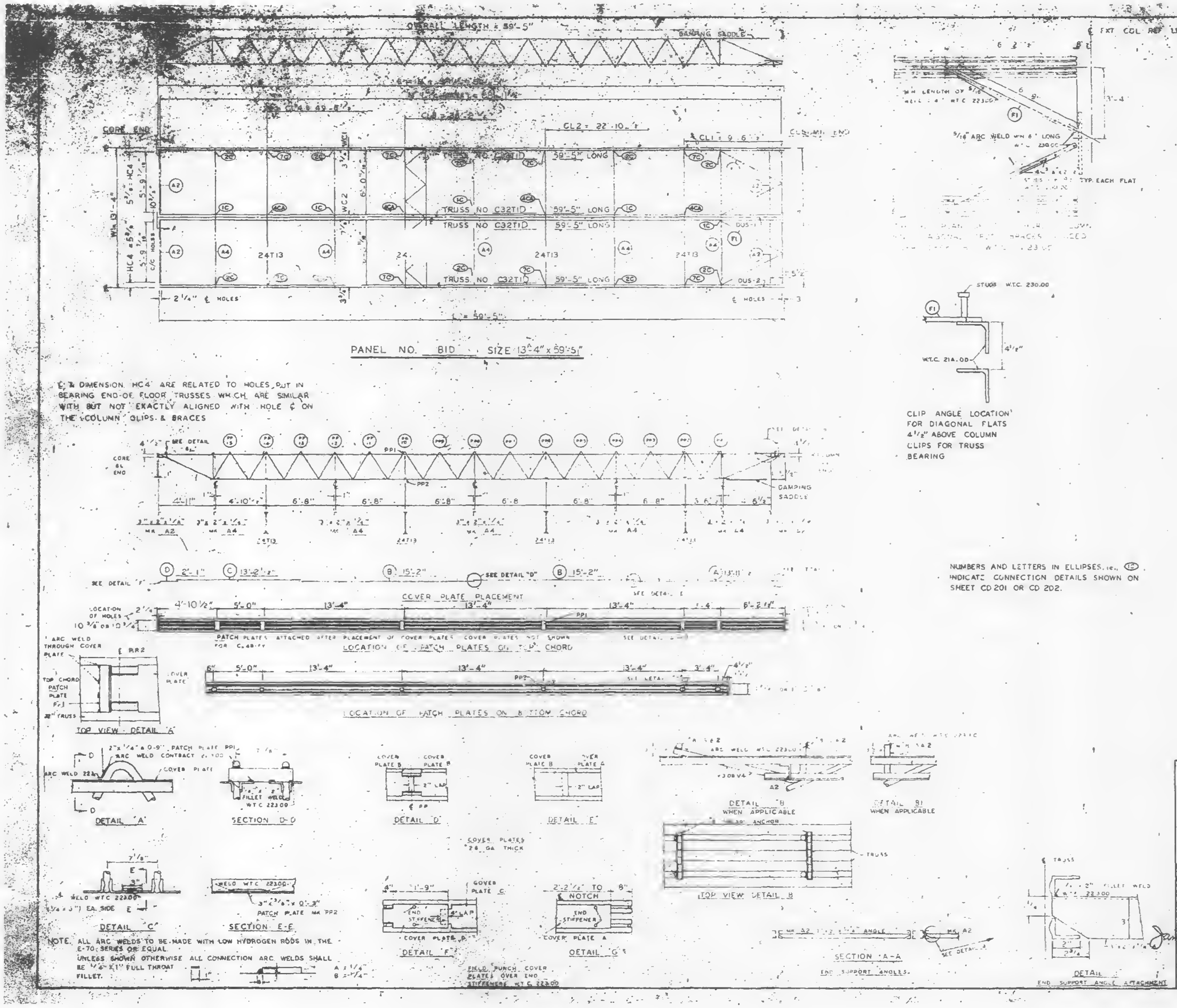
NO.	DATE	REVISION	BY

REF DRWG
7 AB4 3,3,1 & 39 4-3-68
7 AB4 15 & 16 5-6-68
7 AB4-42 4-1-68
[illegible] 24 10-20-67
7-AB3-2 [illegible]-3-68
7 AB1 2 2-6-68
7-AB2 8 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-66, 68-74, 79 [illegible], [illegible]
PANEL B1C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-5 4-1-68 PLATE	
APPROVED FOR FABRICATION James White FOR PONYA	DATE 10/23/68	DRAWN BY [illegible] DATE OCT. 5, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE [illegible] 1968	IN CHARGE OF [illegible]
DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP B1C



PANEL NO. B1D SIZE 13'-4" x 59'-5"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⑫ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	4	C32T1D : 59'-5"	ST 201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 5/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-8"	ST 403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-6"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0135" x 13'-11 1/2"	ST 303
	B	4	9" x 0135 x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/8" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-0"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

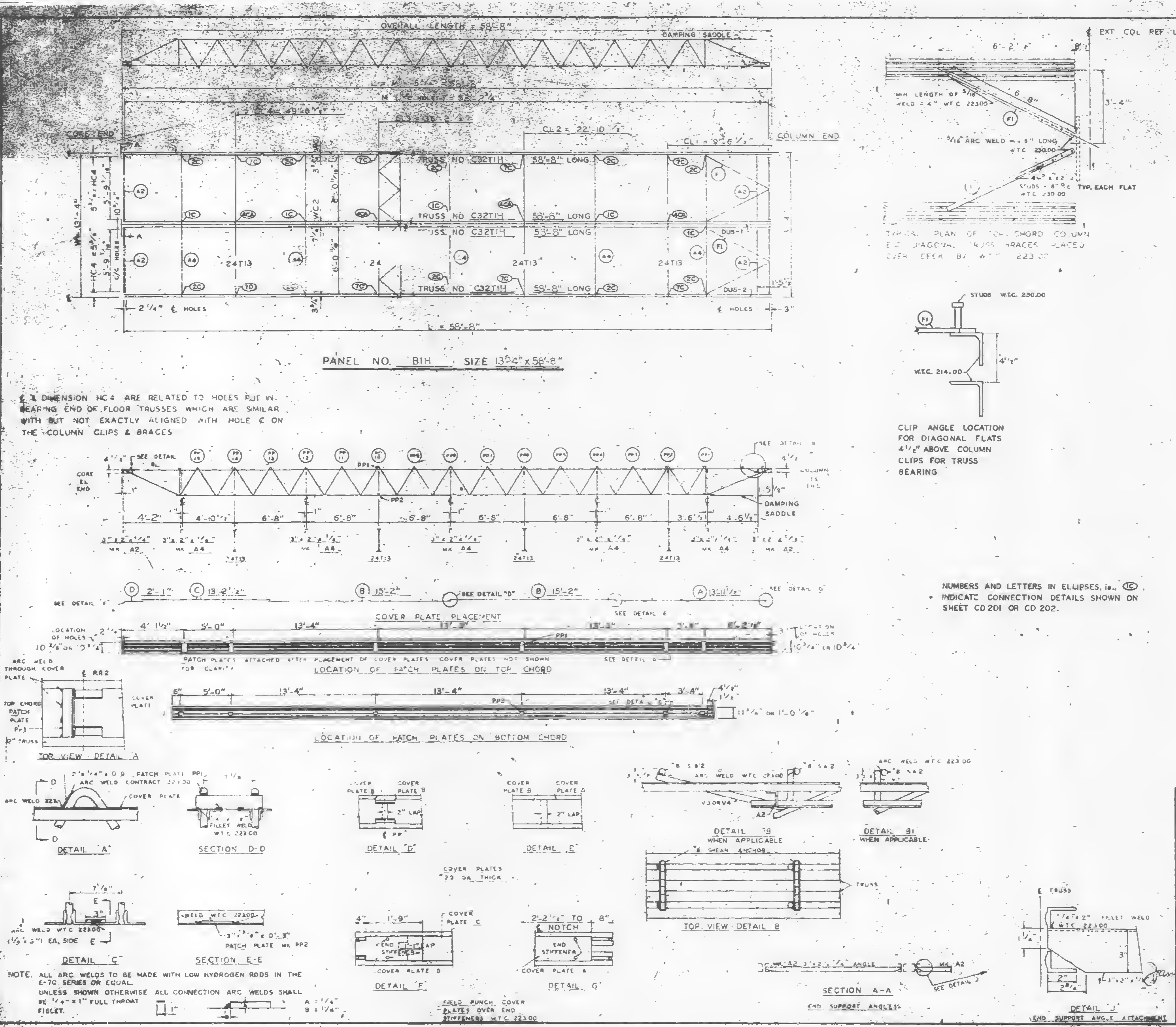
NO.	DATE	REVISION	BY

REF. DWG.
7-484 ... 3-1-68
7-484 ... 5-6-68
7-484 42 ... 4-1-68
... 24 ... 10-20-67
7-493 2 ... 68
7-493 2 ... 68
7-492 5 ... 68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 N
PANEL B1D 13'-4" x 59'-5"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-483-5 4-1-68 PLATE	
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 10/23/68	DRAWN BY [illegible] DATE OCT 11, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURCH DATE OCT 11, 1968	IN CHARGE OF
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP B1D


OVERALL LENGTH = 58'-8"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO. C32T1H 58'-8" LONG
24T13
PANEL NO. B1H SIZE 13'-4" x 58'-8"
L = 58'-8"
2 1/4" ℄ HOLES
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL A
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
COVER PLATES 22 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
EXT. COL. REF. LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1H	4	C32T1H - 58'-8"	ST201H
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
CONNECTION BAR	CB1	4	1" # x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

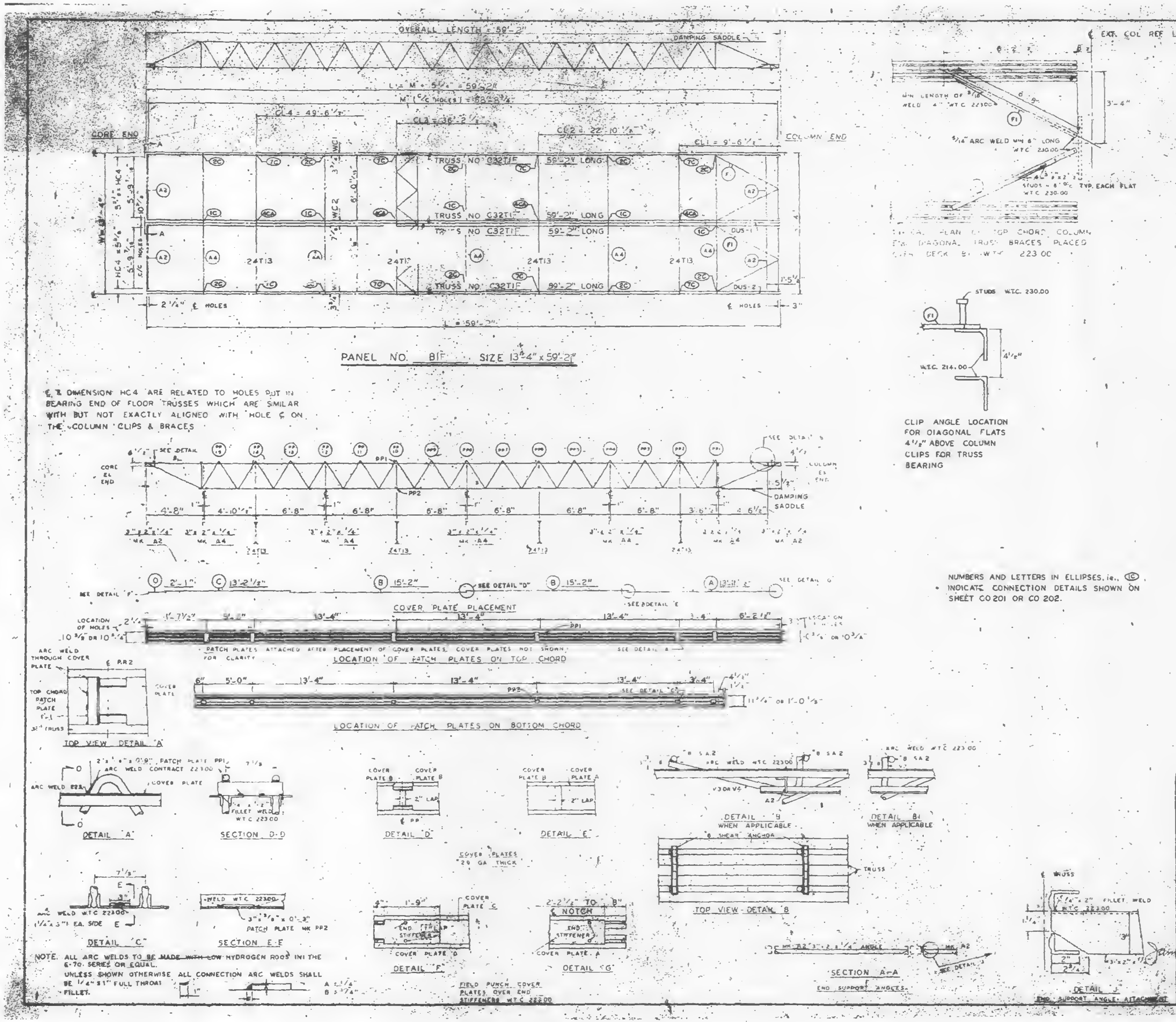
REF DRWG	
7-AB4 J,3,1 & 39	1-3-68
7-AB4 -15 & 16	5-6-68
7-AB4 42	4-1-68
SA 124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-5-68
7-AB2-8	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80 (N)

PANEL B1H - 13'-4" x 58'-8"

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-5 4-1-68 PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 10/23/68	DRAWN BY [illegible] DATE OCT. 5, 1968
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE	CHECKED BY [illegible] DATE OCT. 7, 1968 IN CHARGE OF [illegible]
DETAILED BY A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221 SHEET NO. FP B1


OVERALL LENGTH = 59'-2"
DAMPING SADDLE
CORE END
COLUMN END
EXT. COL REF LINE
TRUSS NO C32T1F 59'-2" LONG
24T13
PANEL NO. B1F SIZE 13'-4" x 59'-2"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
COVER PLATES 24 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED AFTER DECK IS POURED W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4½" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CO 201 OR CO 202.

NOTE. ALL ARC WELDS TO BE ~~MADE WITH LOW~~ HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	T1F	4	C32T1F - 59'-2"	ST201F
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x¼" ANGLE	A2	2	3"x2"x¼"x5'-11⅝"	ST403
	A4	5	3"x2"x¼ x13'-3"	ST403
DIAGONAL FLATS	F1	4	1½"x⅝"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x¼"x0'-9"	ST 400
	PP2	12	3"x⅜"x0'-3"	ST 400
COVER PLATES	A	2	9"x.0135"x13'-11½"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2½"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1½"x¼"x0'-8"	ST 400
#8 SHEAR ANCHOR	SA8	6	#8 REBAR x 0'-9"	ST 400
DAMPIN. SADDLE	DUS-1	1	3½"x3½"x⅜"x3'-8⅞"	ST299
	DUS-2	1	3½"x3½"x⅜"x3'-8⅞"	ST299
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 8½"	ST 400
	P2	4	4½" x .30" x 0'-8"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

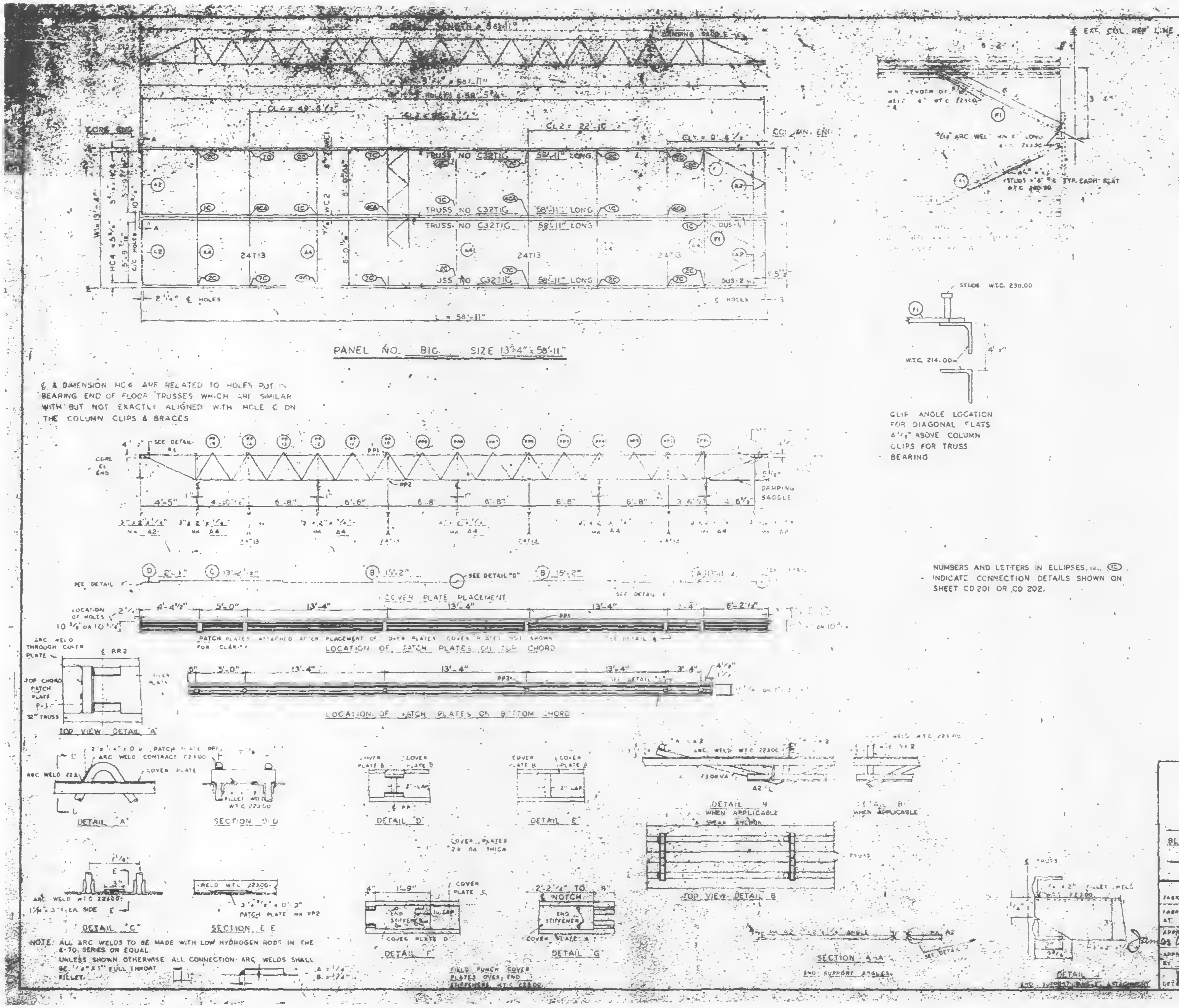
REF DRWG		
	7-AB4-3,3,1 & 39	1-3-68
	7-AB4-15 & 16	5-6-68
	7-AB4-42	A-1-68
	SA-124	10-20-67
	7-AB3-2	1-3-68
	7-AB1-2	2-5-68
	7-AB2-B	2-15-58

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-49(S), 47-48, 75-71(N)
PANEL B1F - 13'-4" x 59'-2"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-5 [illegible]	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 10/23/68	DRAWN BY [illegible] DATE OCT 15, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.V. [illegible] DATE OCT 15, 1968	IN CHARGE OF [illegible]
LACLEDE STEEL CO DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. B1F



PANEL NO. B1G SIZE 13'-4" x 58'-11"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⑮ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL [illegible]				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	4	C32T1G - 58'-11"	ST201G
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x1/4" ANGLE	A8	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	3"x1/4"x0'-8"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	[illegible]	[illegible] 3'-4 1/2"	ST303
	B	[illegible]	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
[illegible]	C1	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLES	DUS-1	1	[illegible]	ST298
	DUS-2	1	[illegible]	ST298
CONNECTION BAR	CB1	4	1"# x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 5 1/2"	ST400
	P2	4	4 1/2" x .30" x 0'-0"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

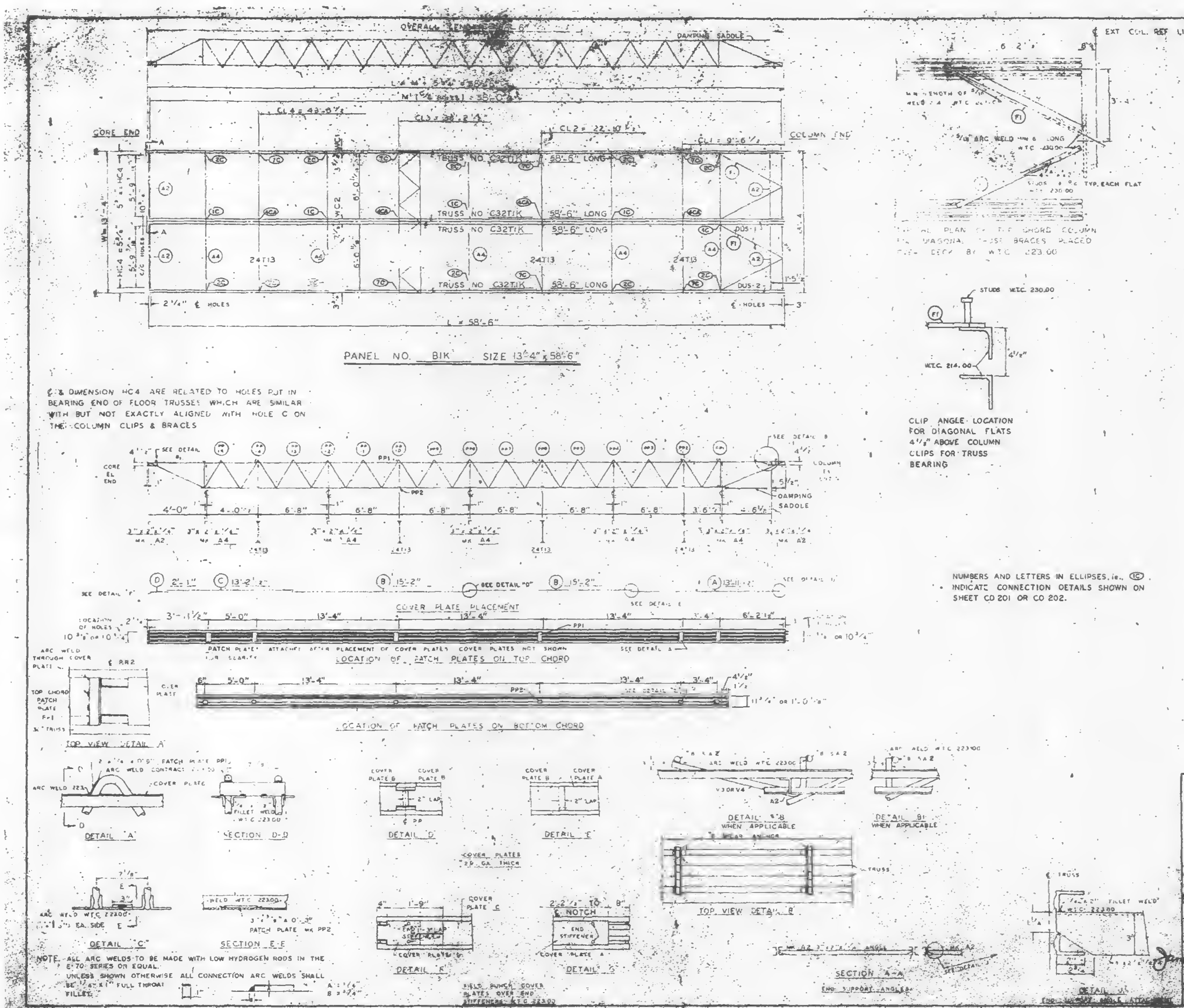
NO.	DATE	REVISION	BY

REF. DRWGS
7-AB4 5,3,1 & 39 [illegible] 68
7-AB4-19 & 6 5-6-68
7-AB4 42 4-1-68
[illegible] 224 1-20-67
7-AB3 2 1-3-68
7-AB1 2 2-5-68
7-AB2.5 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39-40 (NORTH & SOUTH)
PANEL B1G - 13'-4" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3 5 4-1-68 PLATE	
APPROVED FOR FABRICATION James White FOR CONYA — DATE 10/23/68	DRAWN BY [illegible] DATE [illegible] 15, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY J.M. [illegible] DATE [illegible] 15, 1968	IN CHARGE OF PROD. [illegible]
LACLEDE STEEL CO. DETAILED BY A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP B1G



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF THE CHORD COLUMN FOR DIAGONAL TRUSS BRACES PLACED FROM DECK BY W.T.C 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ①C, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER [illegible]

MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	2K	4	C32T1K - 58'-6"	[illegible]
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	[illegible]
3" x 2" x ¼" ANGLE	A2	4	3" x 2" x ¼" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x ¼" x 13'-3"	ST403
DIAGONAL FLATS	F1	2	1½" x [illegible] x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST400
	PP2	12	3" x ⅜" x 0'-3"	ST400
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2½"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-8⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-3⅞"	ST298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3½" x ⅜" x 8½"	ST400
	P2	4	4½" x .30" x 0'-9"	ST400
	P3	4	4½" x .30" x 1'-0"	ST400

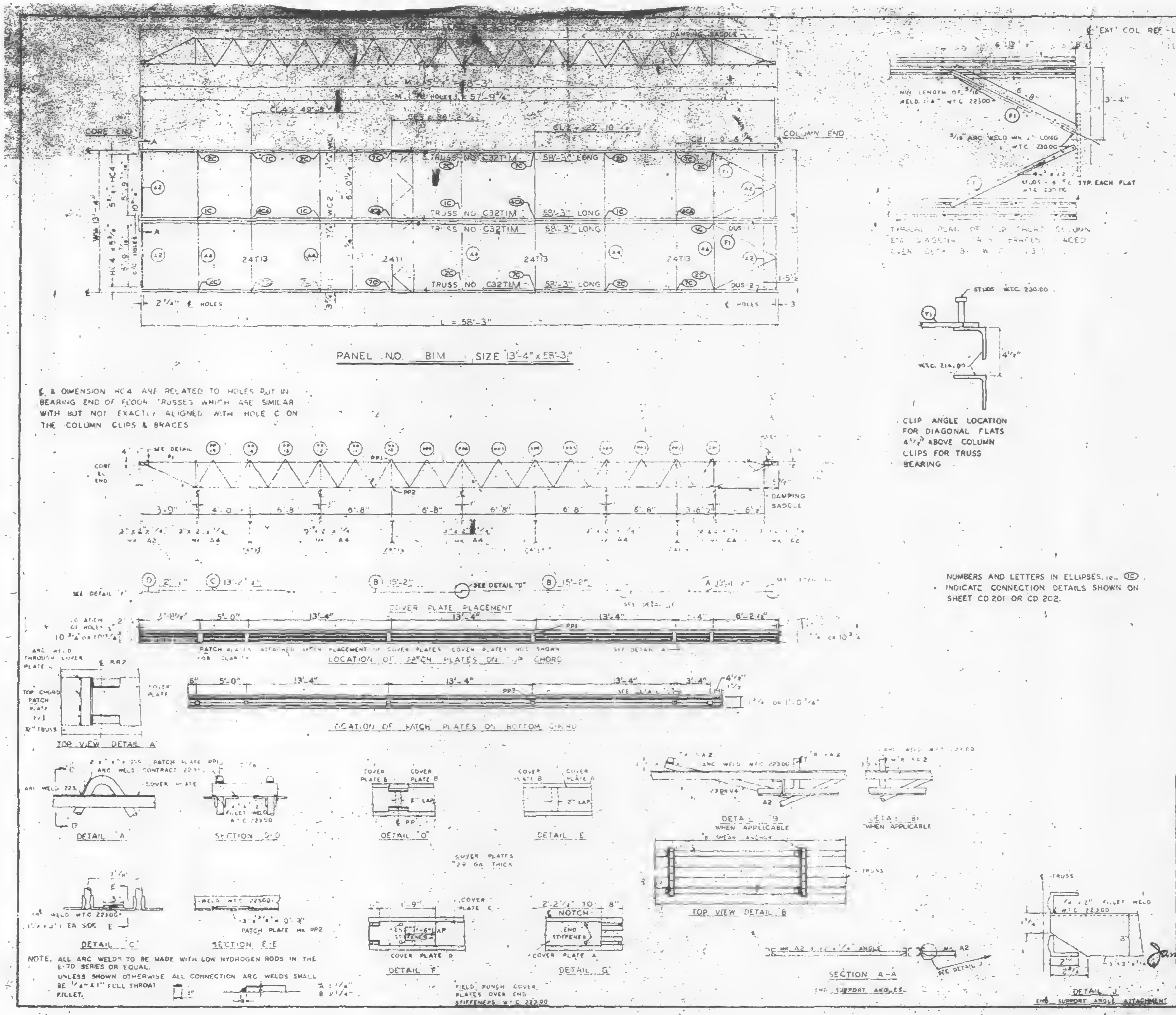
NO.	DATE	REVISION	BY

REF DRWG.
7-484-33,1&39 [illegible]
7-484-15 & 6 5-6-68
7-484-42 [illegible]-1-68
SA-14 [illegible]-20-67
7-483-2 [illegible]
7-481-2 2-[illegible]-68
7-392-J 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-46(S) + 46(N)
PANEL B1K - 13'-4" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-483-5 4-1-68 PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White DATE 10/23/68
DRAWN BY [illegible] DATE OCT [illegible] 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE OCT [illegible] 1968
IN CHARGE OF [illegible]
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FB-B1K


PANEL NO. B1M SIZE 13'-4" x 58'-3"
CORE END
COLUMN END
DAMPING SADDLE
TRUSS NO C32TIM 58'-3" LONG
24T13
L = 58'-3"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
DETAIL "B"
WHEN APPLICABLE
TOP VIEW DETAIL "B"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
COVER PLATES 7/8 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
EXT' COL REF-LINE
TYPICAL PLAN OF TOP CHORD AT COLUMN END SHOWING HOW BRACES PLACED OVER DECK

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1M	4	C32T1M - 58'-3"	ST 201M
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3" x 2" x 1/4 ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4 x 13'-3"	ST 403
DIAGONAL FLATS	F	4	1 1/2" x 5/8" x [illegible]-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.35" x 13'-1 1/2"	ST 303
	B	2	9" x 0.35" x 15'-2"	ST 303
	C	2	9" x 0.35" x 13'-2 1/2"	ST 303
	D	2	9" x 0.35" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-[illegible]	ST 400
DAMPING SADDLE	DUS-4	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

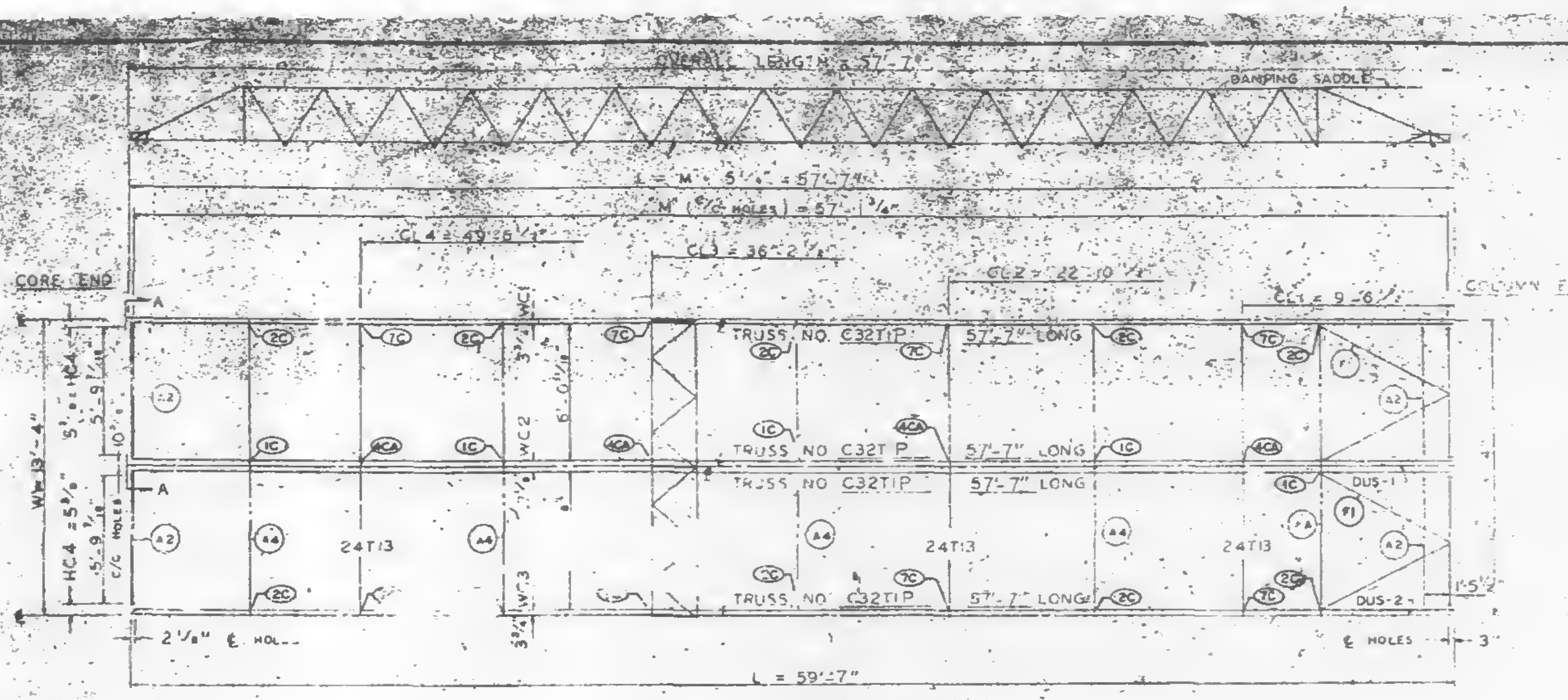
NO.	DATE	REVISION	BY

REF. DRWG
- A84 13, 1 & 30 1-3-68
- A84 15 & 5 5-6-68
- A84 42 4-1-68
- [illegible] 21 [illegible]-26-67
- A84 2 1-3-68
- A85 2 2-5-68
- A82 6 2-15-68

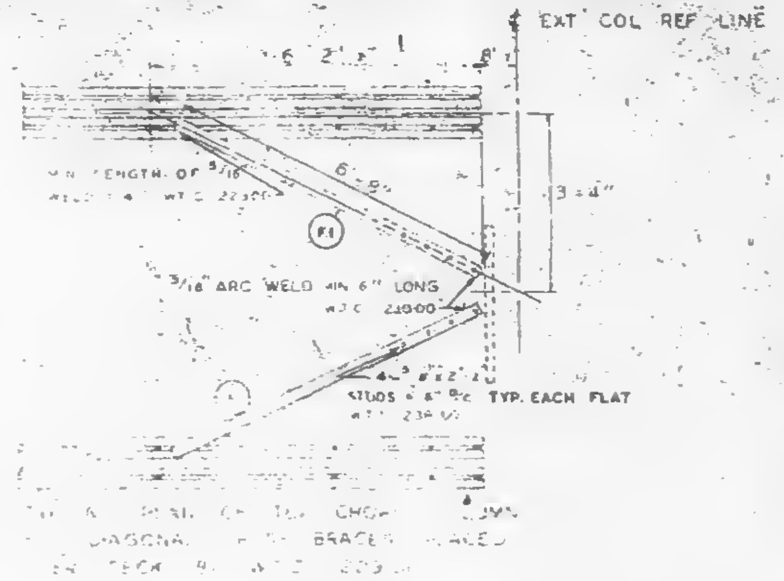
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 W
PANEL B1M - 13'-4" x 58'-3"

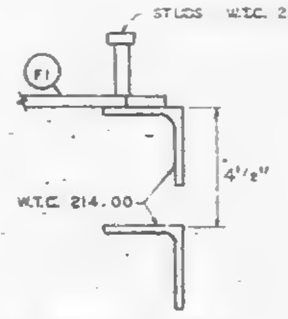
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. A-683 5 [illegible] PLATE 2
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 10/23/68
DRAWN BY [illegible] DATE OCT. 13, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible] 1968 IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B1M



PANEL NO. B1P SIZE 13'-4" x 57'-7"

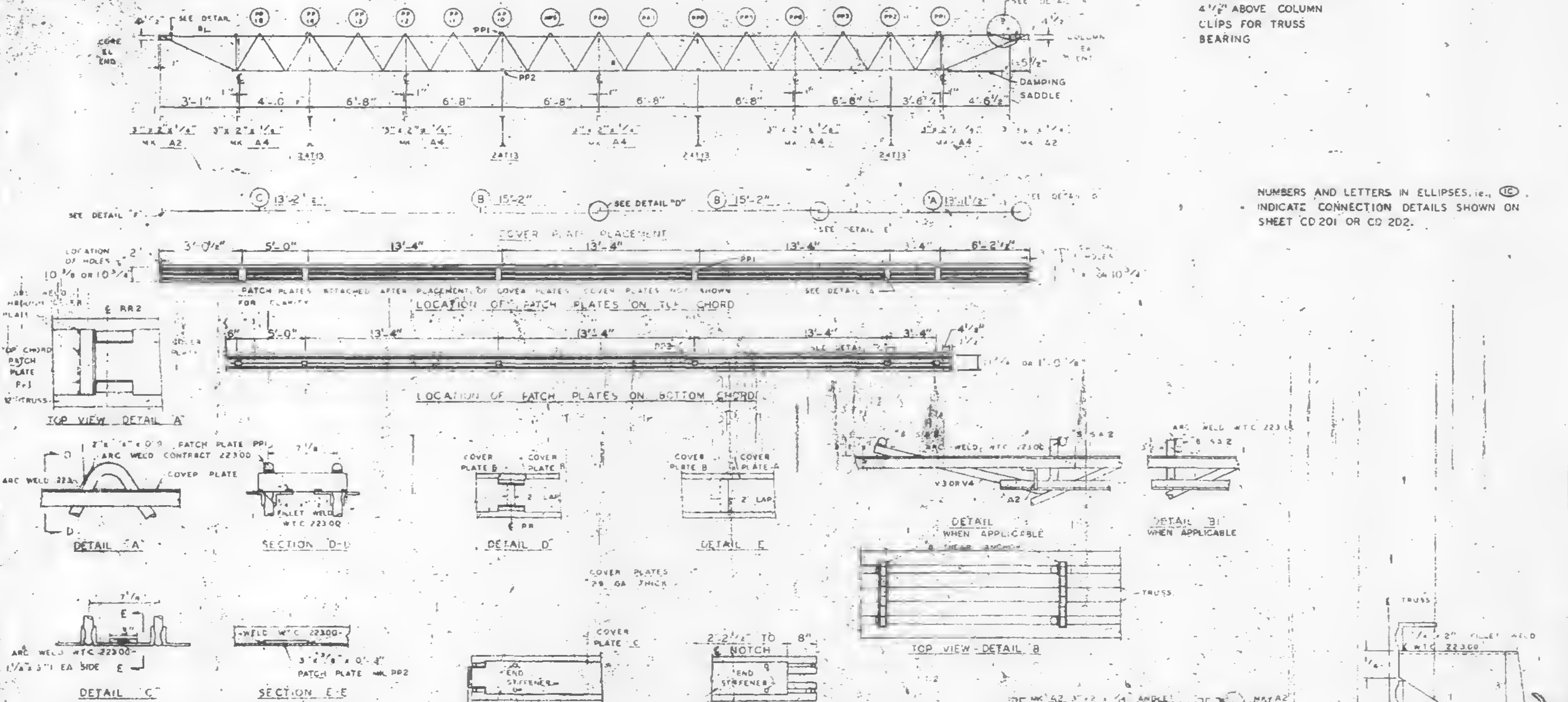

EXT. COL. REF. LINE
3/16 ARC WELD MIN 6" LONG W.T.C. 223.00
STUDS 4" ¢C TYP. EACH FLAT

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T1P	4	C32T1 - 57'-7"	ST201P
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x5'-11 9/16"	ST403
	A4	5	3"x2"x¼x13'-3"	ST403
DIAGONAL FLATS	F1	4	1½"x⅝"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x¼"x0'-9"	ST400
	PP2	12	3"x⅜"x0'-3"	ST400
COVER PLATES	A	2	9"x.0135"x13'-11½"	ST303
	B	4	9"x.0135 x 15'-2"	ST303
	C	2	9"x.0135"x13'-2½"	ST303
	D	2	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	16	3"x1½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3½"x3½"x⅜"x3'-5⅞"	ST299
	DUS-2	1	3½"x3½"x⅜"x3'-6⅞"	ST299
CONNECTION BAR	CB1	4	1"# x 1'-3"	ST400
CONNECTION PLATES	P1	5	3½"x⅜"x6½"	ST400
	P2	4	4½"x.39"x0'-9"	ST400
	P3	4	4½"x.39"x1'-0"	ST400



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES



NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼"x1" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

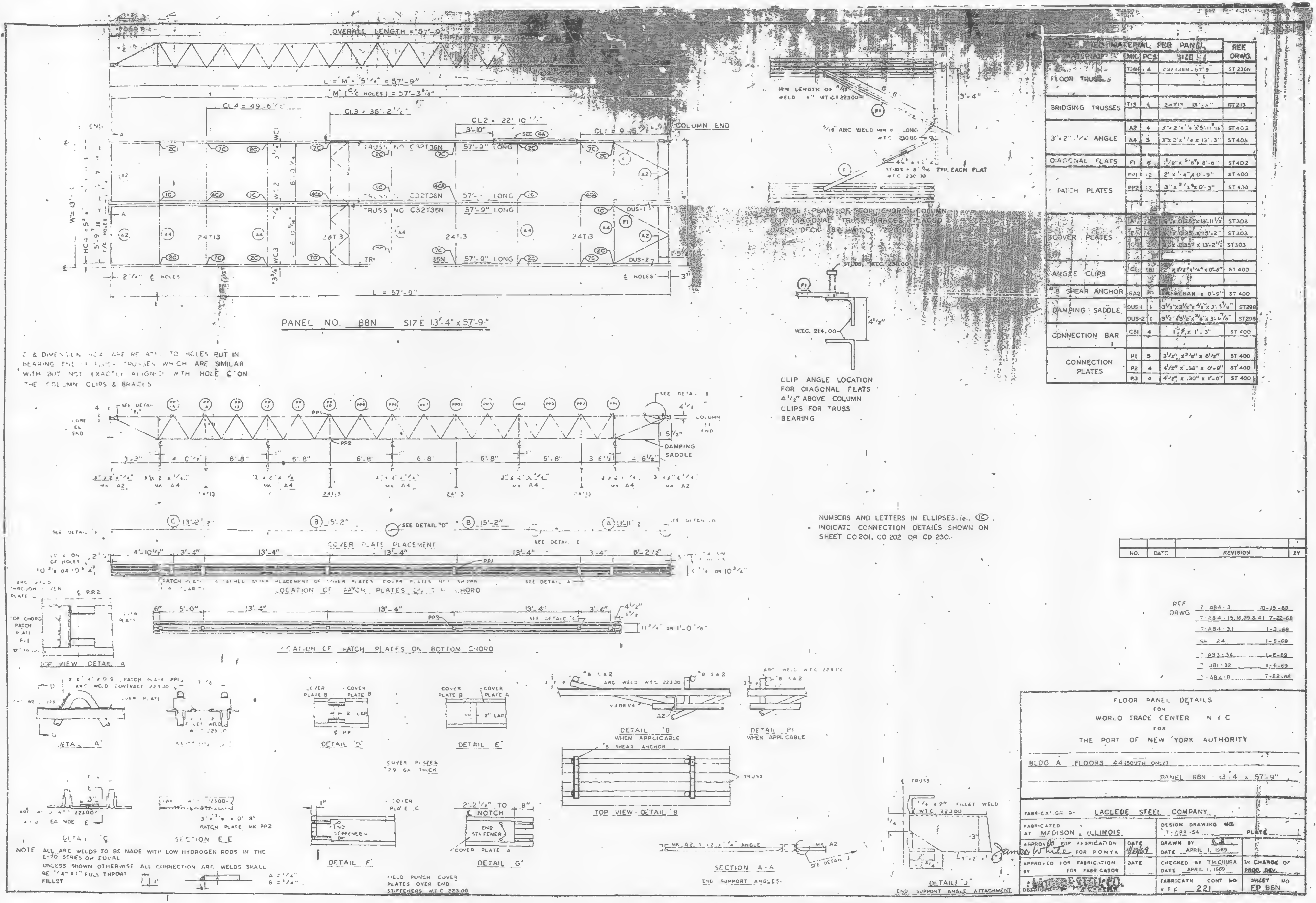
REF. DRWG.
7-AB4-33,1&30 — 2-58
7-AB4-15 & 16 — 5-6-68
7-AB4-42 — 4-?-68
[illegible]
7-AB4-2 — 3-68
7-AB1-2 — [illegible]
7-AB2-2 — 5-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG 4 FLOORS 74(N)

PANEL B1P - 13'-4" x 57'-7"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB4-5 4-1-68 PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 10/23/68
DRAWN BY [illegible] DATE OCT. 15, 1968
APPROVED FOR FABRICATION BY FOR [illegible] DATE
CHECKED BY T. M. CHUNA DATE OCT. 15, 1968
IN CHARGE OF PROD. [illegible]
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B1P



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES (ie. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CO201, CO202 OR CD230.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET
A = 1/4"
B = 1/4"

[illegible] MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T36N	4	C32T36N - 57'-9"	ST 236N
BRIDGING TRUSSES	T13	4	24T13 13'-[illegible]	ST213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 8'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	[illegible] x .0135" x 13'-11 1/2"	ST303
	B	4	[illegible] x .0135" x 15'-2"	ST303
	C	2	[illegible] x .0135" x 13'-2 1/2"	ST303
ANGLE CLIPS	CL	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	[illegible]	[illegible] REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-3 5/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

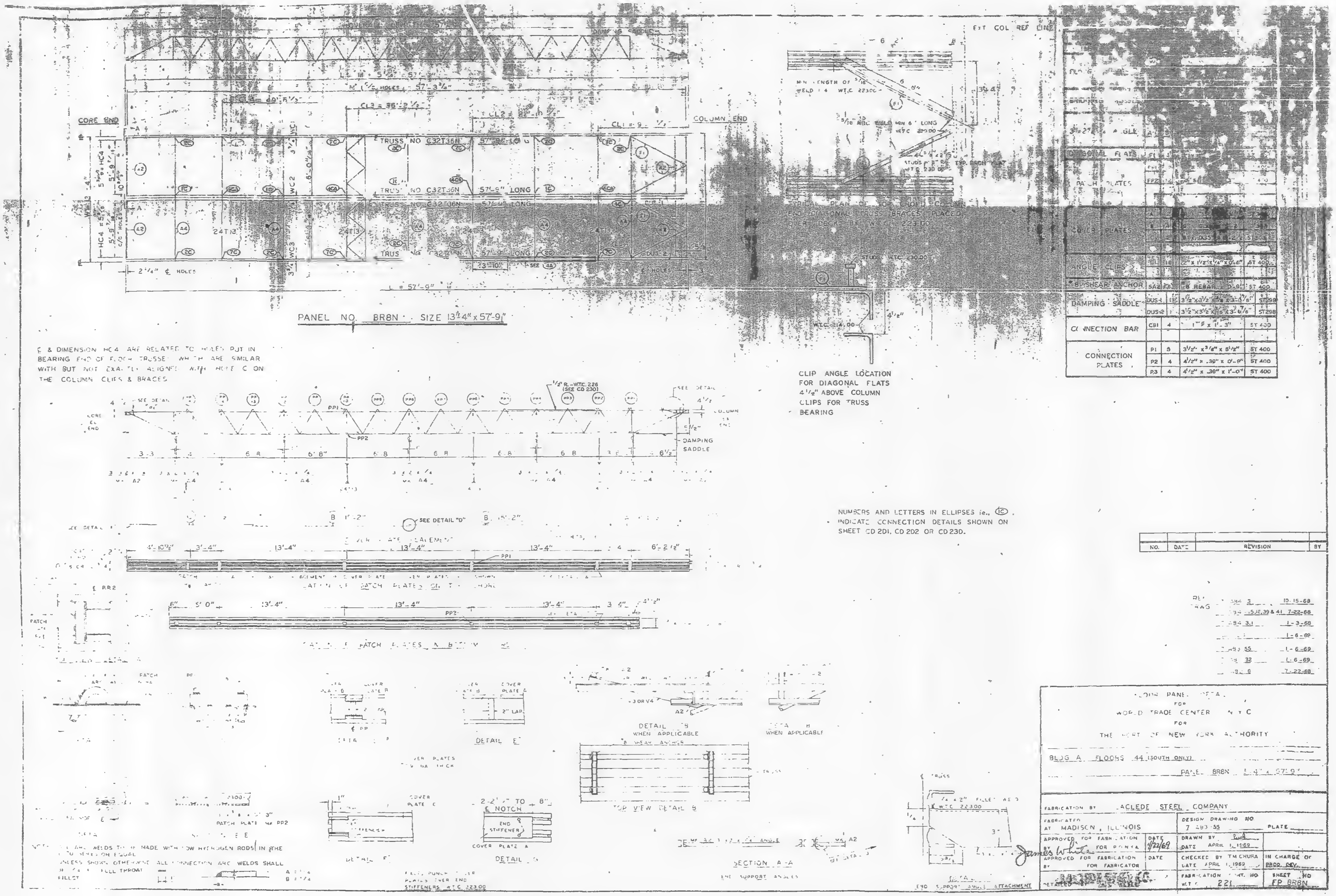
REF DRWG

7 A84-3	10-15-68
7-A84-15,16,39 & 41	7-22-68
7-A84-31	1-3-68
SA 24	1-6-69
7 A83-34	1-6-69
7 A81-32	1-6-69
7-A84-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 44 (SOUTH ONLY)
PANEL 88N - 13'-4 x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A83-54	PLATE
APPROVED FOR FABRICATION James White FOR PONYA	DATE 4/29/69	DRAWN BY [illegible] DATE APRIL 1, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 1, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY [illegible]		FABRICATION CONT NO. WTC 221	SHEET NO. FP 88N



PANEL NO. BR8N SIZE 13'-4" x 57'-9"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES ie. ⓉⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 230.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE [illegible] SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET

FLOOR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING [illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3 1/2" x 2 1/2" ANGLE	A[illegible]	[illegible]	[illegible]	[illegible]
DIAGONAL FLATS	FL[illegible]	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	[illegible]	[illegible]	[illegible]
	PP2	[illegible]	[illegible]	[illegible]
COVER PLATES	A	[illegible]	[illegible]	[illegible]
	B	[illegible]	[illegible]	[illegible]
	C	[illegible]	[illegible]	[illegible]
ANGLE CLIPS	CL	10	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	[illegible]	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

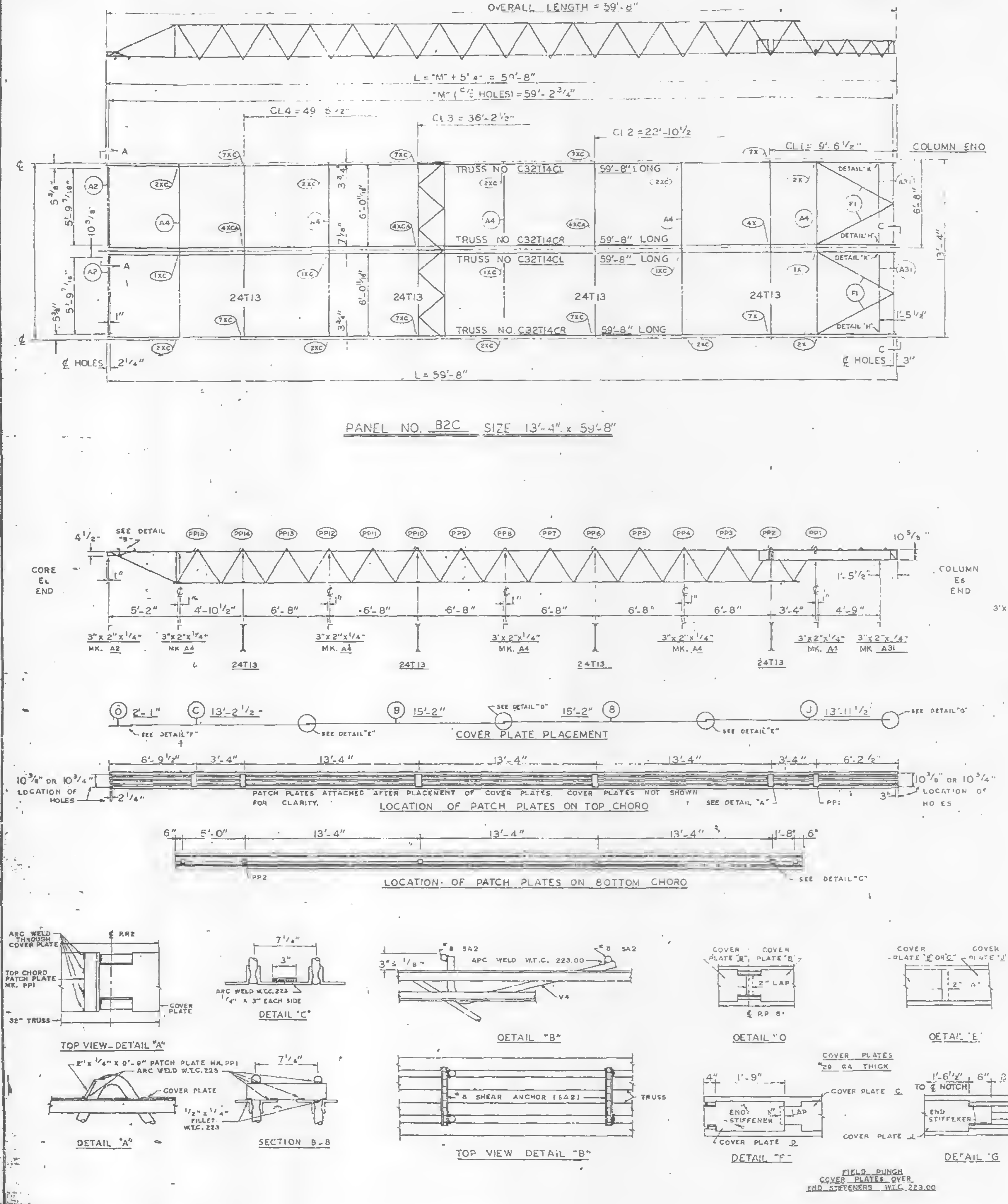
NO.	DATE	REVISION	BY

REF DWG
[illegible] 484 3 — 10-15-68
[illegible] 484 15,18,39 & 41 — 7-22-68
[illegible] 484 3.1 — 1-3-68
[illegible] — 1-6-69
[illegible] 483 55 — 1-6-69
[illegible] 483 32 — 1-6-69
[illegible] 483 8 — 7-22-68

FLOOR PANEL DETAIL
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 44 (SOUTH ONLY)
PANEL BR8N 13'-4" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7 483-55 PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 4/22/69
DRAWN BY [illegible] DATE APRIL 1, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 1, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]
FABRICATION SHT. NO WT.C 221
SHEET NO FP BR8N



PANEL NO. B2C SIZE 13'-4" x 59'-8"

COVER PLATE PLACEMENT

LOCATION OF PATCH PLATES ON TOP CHORD

LOCATION OF PATCH PLATES ON BOTTOM CHORD

TOP VIEW - DETAIL "A"

DETAIL "A"

DETAIL "C"

SECTION B-B

DETAIL "B"

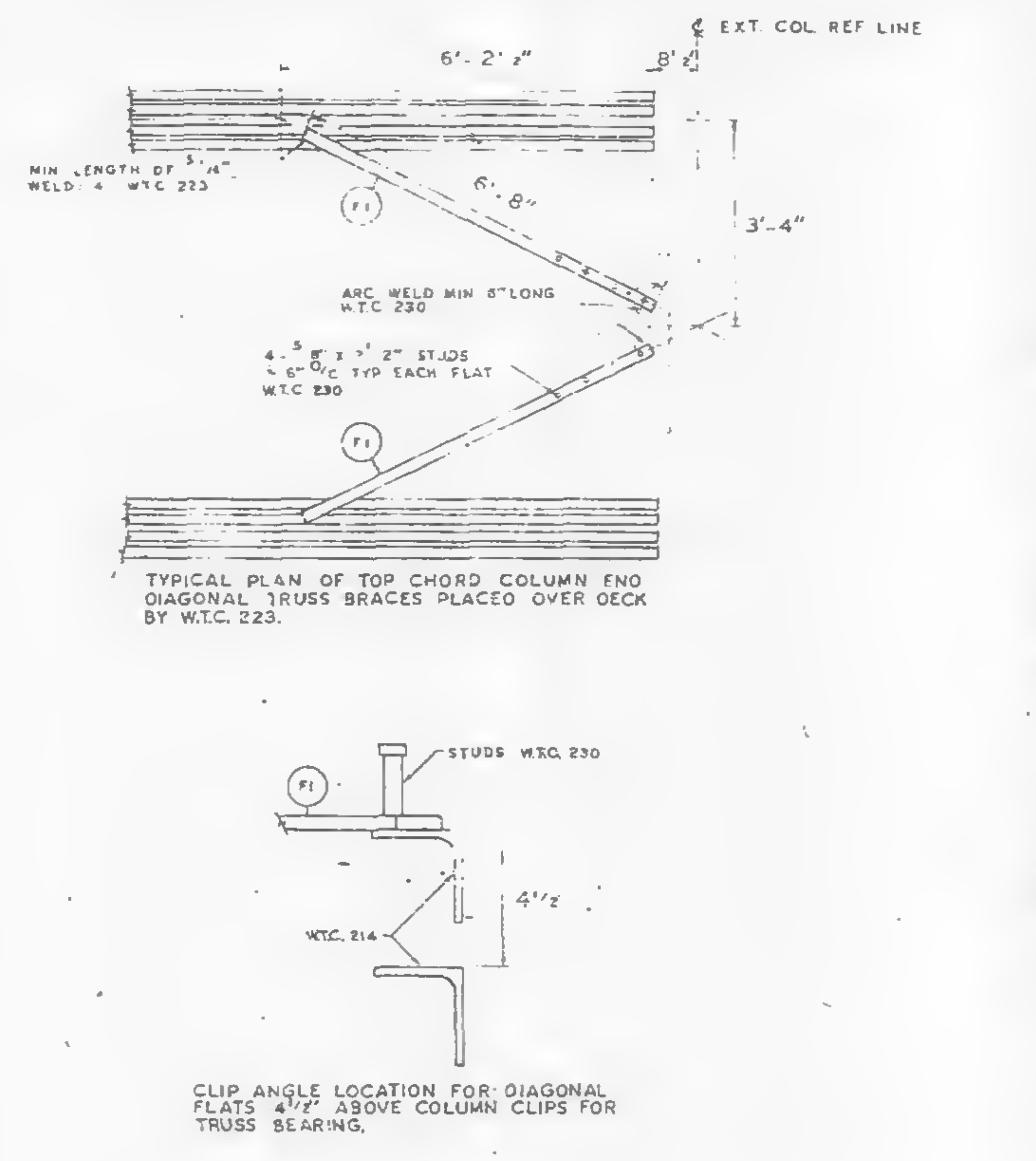
TOP VIEW DETAIL "B"

DETAIL "D"

DETAIL "E"

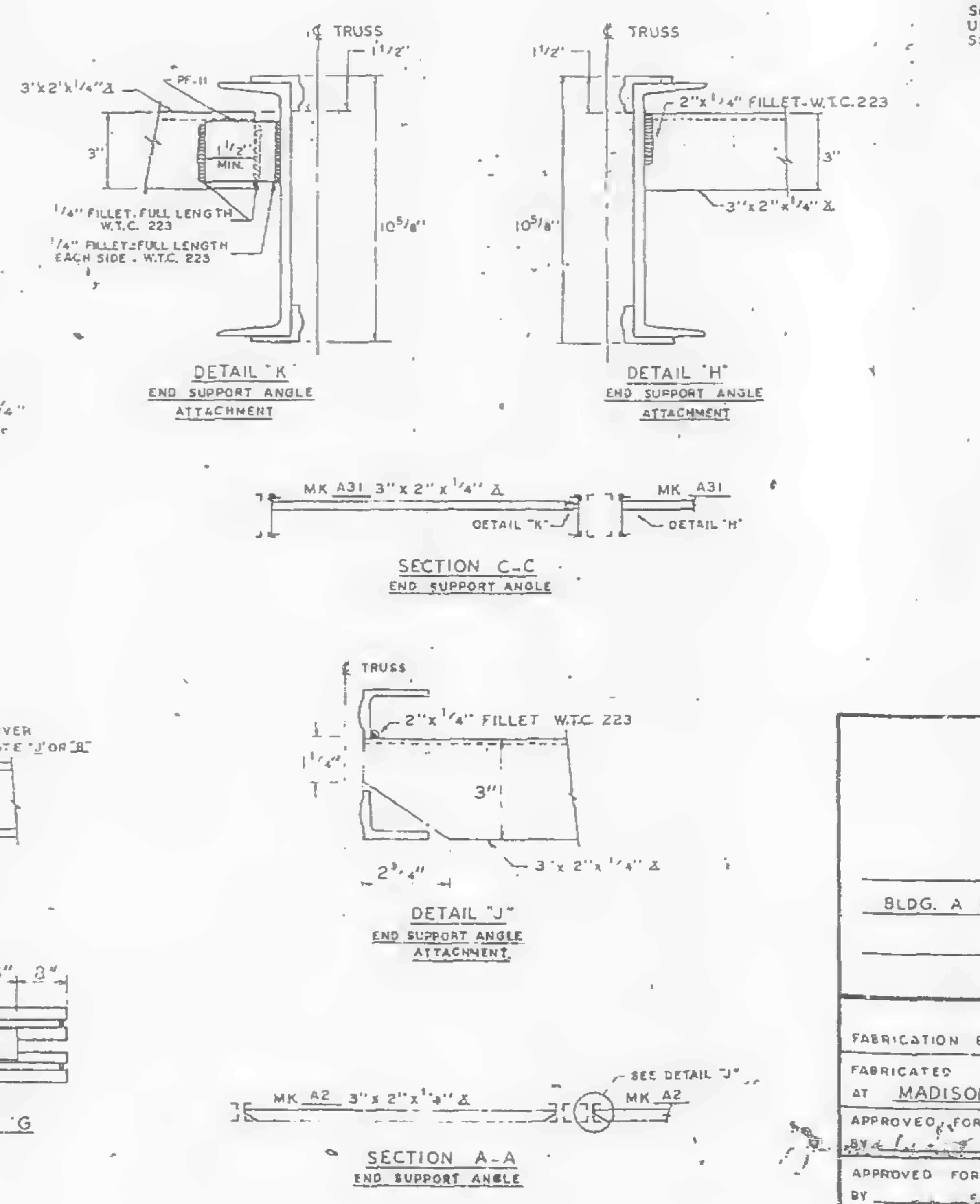
DETAIL "F"

DETAIL "G"


℄ EXT. COL REF LINE
6'-2 1/2"
8 1/2"
MIN LENGTH OF 3 1/4" WELD 4 W.T.C. 223
F1
6'-8"
3'-4"
ARC WELD MIN 6" LONG W.T.C. 230
4 - 3/8" x 3 1/2" STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230
STUDS W.T.C. 230
W.T.C. 214
4 1/2"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.



DETAIL "K"
END SUPPORT ANGLE ATTACHMENT

DETAIL "H"
END SUPPORT ANGLE ATTACHMENT

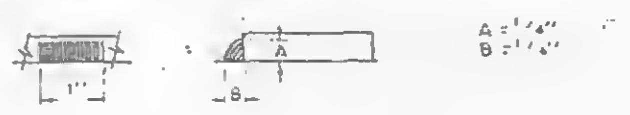
SECTION C-C
END SUPPORT ANGLE

DETAIL "J"
END SUPPORT ANGLE ATTACHMENT

SECTION A-A
END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	4	24T13 x 13'-3"	ST 213
3" x 2" x 1/4" ANGLE	A2	2	3" x 2" x 1/4" x 5'-11 [illegible]	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
	A31	2	3" x 2" x 1/4" x 5'-[illegible]	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY

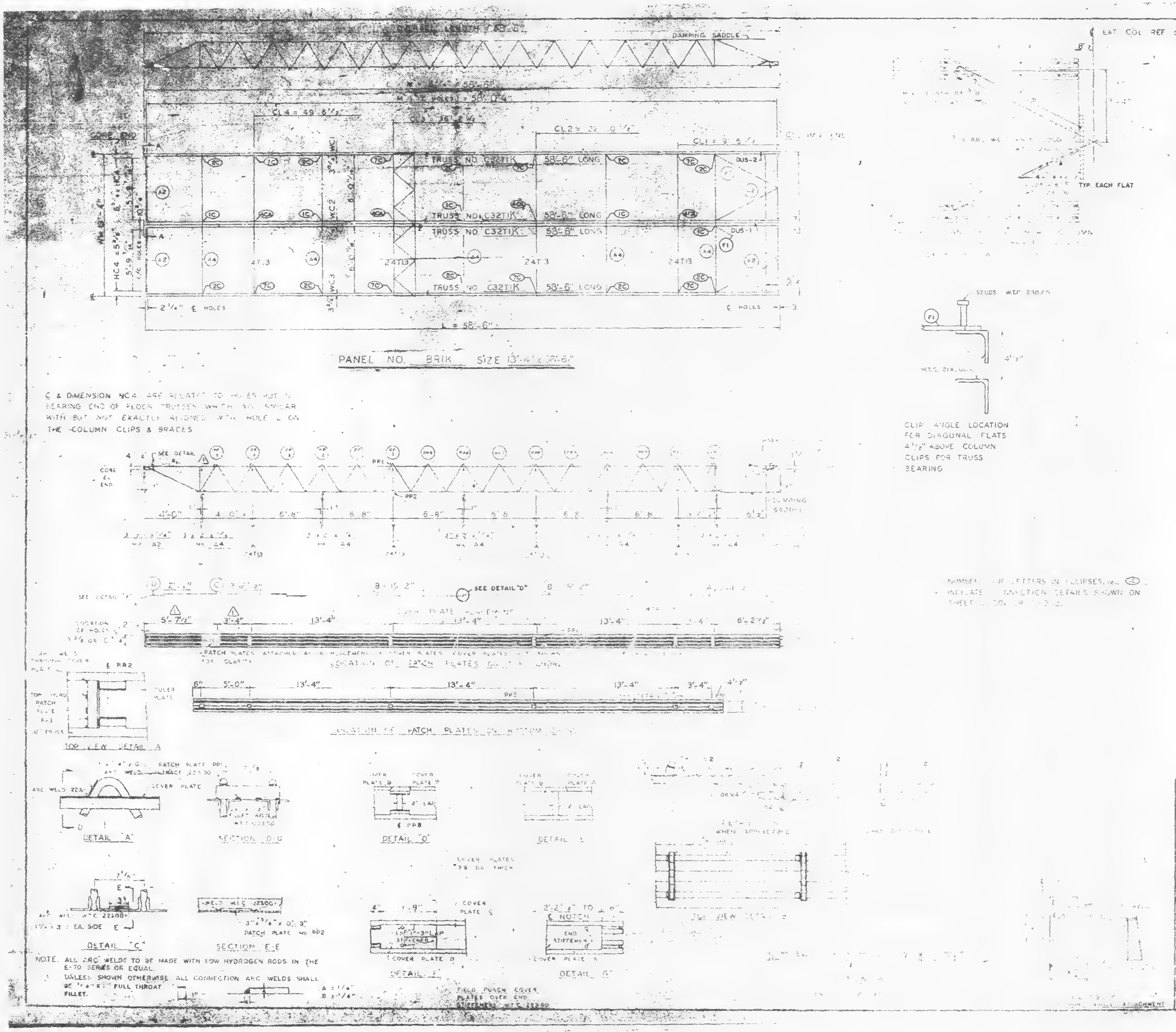
REF DRWG.		
	7-A83-26	10-4-68
	7-A81-13	10-4-68
	7-A82-8	7-22-68
	7-A84-28	7-22-68
	SA-124	10-11-68
	7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)

PANEL B2C-13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-A83-26	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 6/6/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP B2C



PANEL NO. BRIK SIZE 13'-4" x 58'-6"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, INDICATE CONNECTION DETAILS SHOWN ON SHEET

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" KT FULL THROAT FILLET.

REQUIRED MATERIAL				
MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	T1K	4	C32T1K	[illegible]
BRIDGING TRUSSES	TJ5	4	24T1[illegible]	[illegible]
3"×2"×1/4" ANGLE	A2	4	3"×2"×1/4" [illegible]	[illegible]
	A4	5	3"×2"×1/4" [illegible]	[illegible]
DIAGONAL FLATS	F1	4	1 1/2" [illegible]	[illegible]
PATCH PLATES	PP1	12	2 1/2"× [illegible]	ST 400
	PP2	12	3"× [illegible]	ST 400
COVER PLATES	A	2	9"×.0135"×13'-1 1/2"	ST 3[illegible]
	B	4	9"×.0135"×15'-[illegible]	ST 3[illegible]
	C	2	9"×.0135"×13'-2 1/2"	ST 3[illegible]
	D	2	9"×.013[illegible]"×[illegible]-1"	ST 303
ANGLE CLIPS	C1	16	2"×1 1/2"×1/4"×0'-6"	ST 400
#6 SHEAR ANCHOR	S22	5	#6 REBAR [illegible]	ST [illegible]
DAMPING SADDLE	DUS-1	1	3 1/2"×3 1/2"×3/8"×3'-6 7/8"	ST298
	DUS-2	1	3 1/2"×3 1/2"×3/8"×3'-8 7/8"	ST[illegible]
CONNECTION BAR	CB1	4	1"⌀ × 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2"×3/8"×8 1/2"	ST 400
	P2	4	4 1/2"×.30"×0'-9"	ST 400
	P3	4	4 1/2"×.30"×1'-0"	ST 400

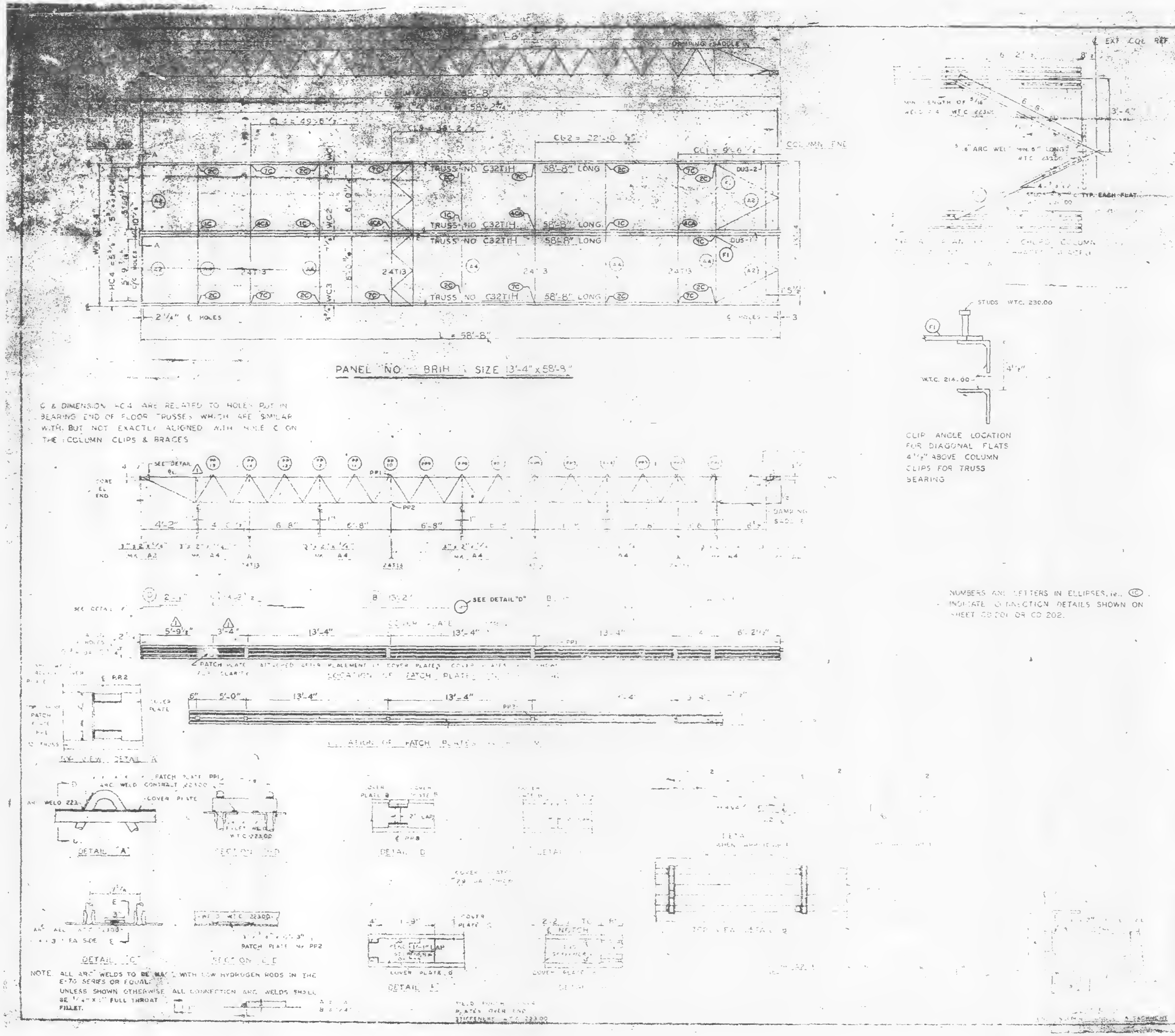
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	R.L.

REF DRWG
7-A04-3 10-15-68
7-AB4-15 7-22-68
⚠ 7-AB4-42 10-15-68
SA 124 1-6-69
7-AB3-2 1-3-69
7-AH1-2 7-22-68
7-AB3-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 46 (N) + 45-46 (S)
PANEL BRIK
BLDG. B FLOOR 46 (EAST & WEST) 45 (EAST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY DATE
DESIGN DRAWING [illegible] PLATE
DRAWN BY [illegible] DATE 10-22-68
CHECKED BY [illegible] DATE [illegible] IN CHARGE
DETAILED BY [illegible]



C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH, BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4½" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MAT[illegible]				
MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	[illegible]	2	[illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	2	[illegible]	[illegible]
3"x2"x¼" ANGLE	A2	4	[illegible]	[illegible]
	A4	5	3"x2"x¼" [illegible]	[illegible]
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	3" x [illegible]	ST 400
[illegible] PLATES	A	[illegible]	[illegible]	[illegible]
	B	4	9" x [illegible]	ST 303
	C	2	9" x .0135" x 13'-2"	ST303
	D	2	9" x .0135" x [illegible]	ST303
ANGLE CLIPS	C	16	2" x 1½" x ¼" x [illegible]	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x [illegible]	ST 400
DAMPING SADDLE	DUS-1	1	[illegible]	[illegible]
	DUS-2	1	3½" x 3½" x ⅜" x [illegible]	ST298
CONNECTION BAR	CB1	4	1" # x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x [illegible]	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-5-69	AS NOTED	R.J.P.

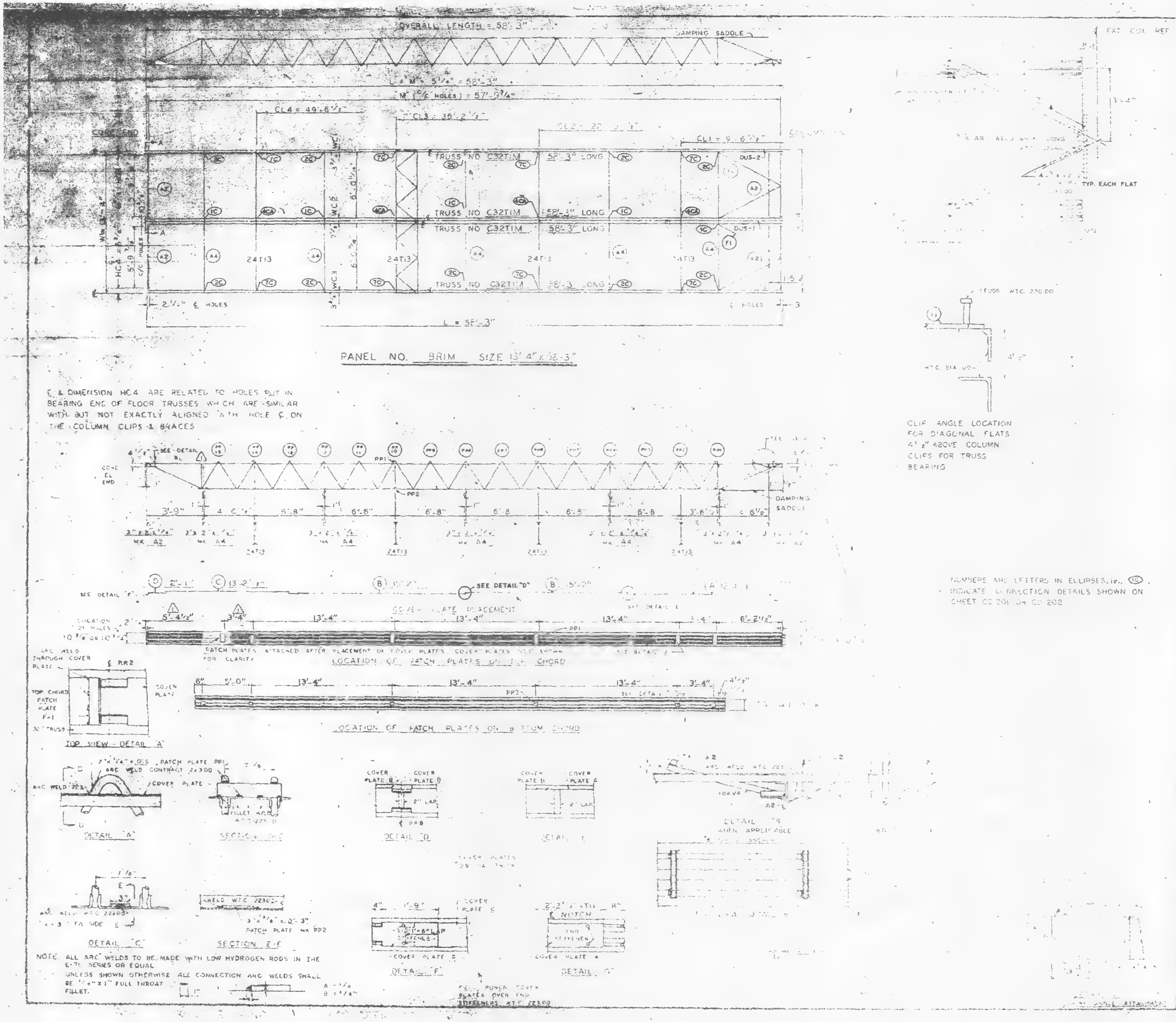
⚠1 REF DRWG
7-AB4-3 10-15-68
7-AB4-15,16 7-22-68
7-AB4-42 10-15-68
SA-124 1-6-69
7-AB3-2 3-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 79-80(N)
PANEL BRIH - 13'-4" x 58'-8"
BLDG. B FLOORS 79-80 (WEST) ⚠1

LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY [illegible]	DATE 1/2/70	DESIGN DRAWING NO. 7-AB3-6	PLATE
APPROVED FOR FABRICATION BY [illegible] FABRICATOR	DATE	DRAWN BY [illegible] DATE 10-22-68	
[redacted]		CHECKED BY T.H. CHURCH DATE 10-22-68	IN CHARGE OF
DETAILED BY A.C. WEEKS		FABRICATION [illegible]	79 BRIH



PANEL NO. BRIM SIZE 13'-4" x 58'-3"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⑮, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS.	[illegible]	[illegible]
FLOOR TRUSSES	T1M	4	C32TIM 58'-3"	[illegible]
BRIDGING TRUSSES	T13	4	24T13	[illegible]
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x[illegible]	ST 403
	A4	5	3"x2"x[illegible]	[illegible]
DIAGONAL FLATS	F1	4	1½"x[illegible]	[illegible]
PATCH PLATES	PP1	12	2"x[illegible]	ST 400
	PP2	12	3"x⅜"x0'-3"	ST 400
COVER PLATES	A	2	9"x.0135"x[illegible]	ST 400
	B	4	9"x.0135"x13'-2"	ST 303
	C	2	9"x.0135"x13'-2½"	ST 303
	D	2	9"x.0135"x2'-1"	ST 303
ANGLE CLIPS	C1	16	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½"x3½"x⅜"x2'-8⅞"	[illegible]
	DUS-2	1	3½"x3½"x⅜"x2'-8⅞"	ST 299
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½"x⅜"x6½"	ST 400
	P2	8	4½"x.30"x0'-0"	ST 200
	P3	4	4½"x.25"x1'-0"	ST 400

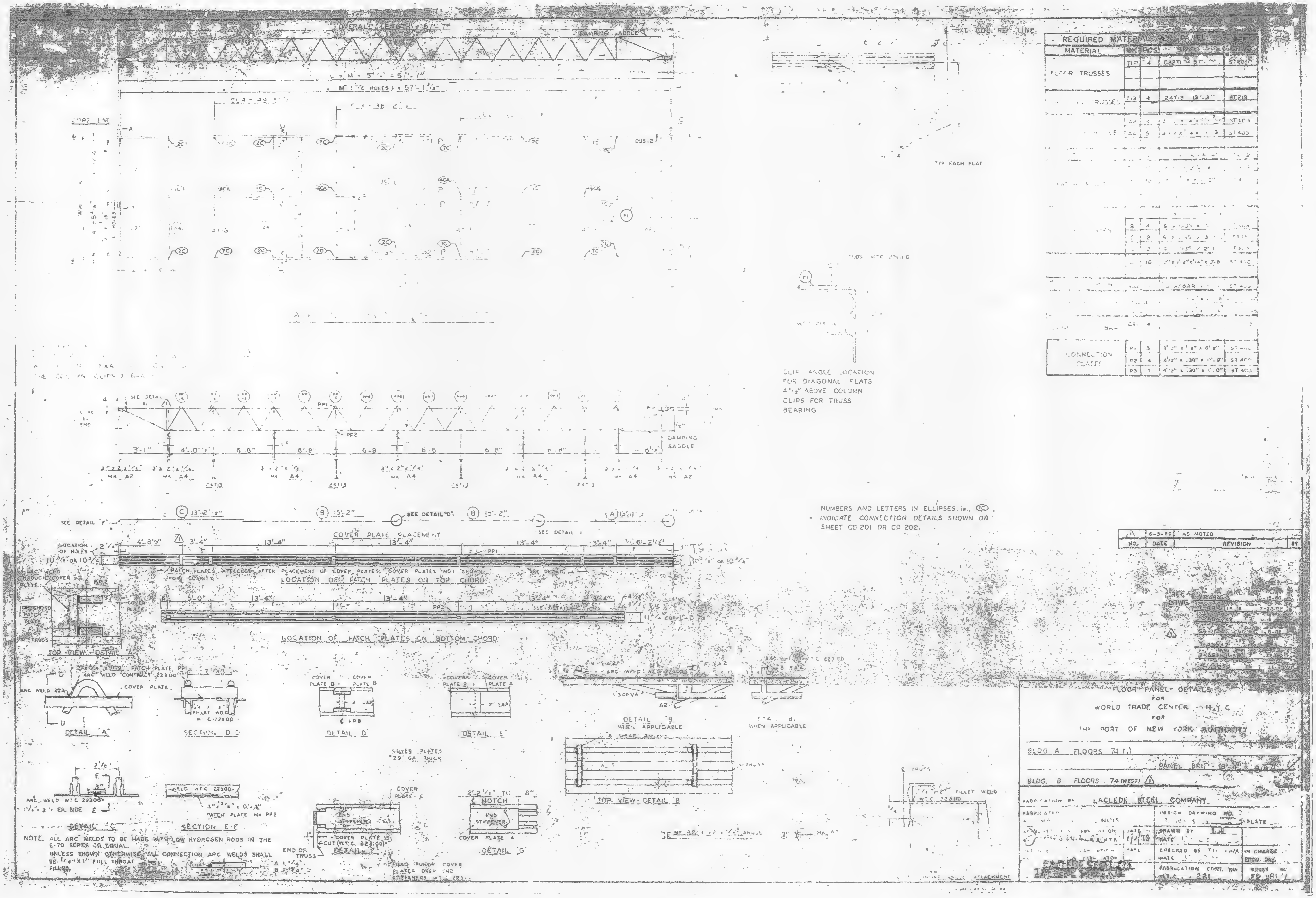
NO.	DATE	REVISION	
1	8-5-69	AS NOTED	R.J.E.

1 REF. DRWG
7-AB4-3 10-15-66
7-AB4-10,6 7-22-58
7-AB4-42 10-15-68
SA-124 1-6-69
7-AB3-2 1-8-68
7-AB4-2 7-22-58
7-AB4-9 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER, N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 72-73 (N)
PANEL BRIM 13'-4" x 58'-3"
BLDG B FLOORS 72-73 (WEST) 1

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-[illegible]
APPROVED FOR FABRICATION DATE
DRAWN BY
DATE 1-22-68
APPROVED FOR FABRICATION DATE
CHECKED BY
DATE 10-22-68
FABRICATION CONTRACT
SHEET NO.
DETAILED BY



NUMBERS AND LETTERS IN ELLIPSES, ie., ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL

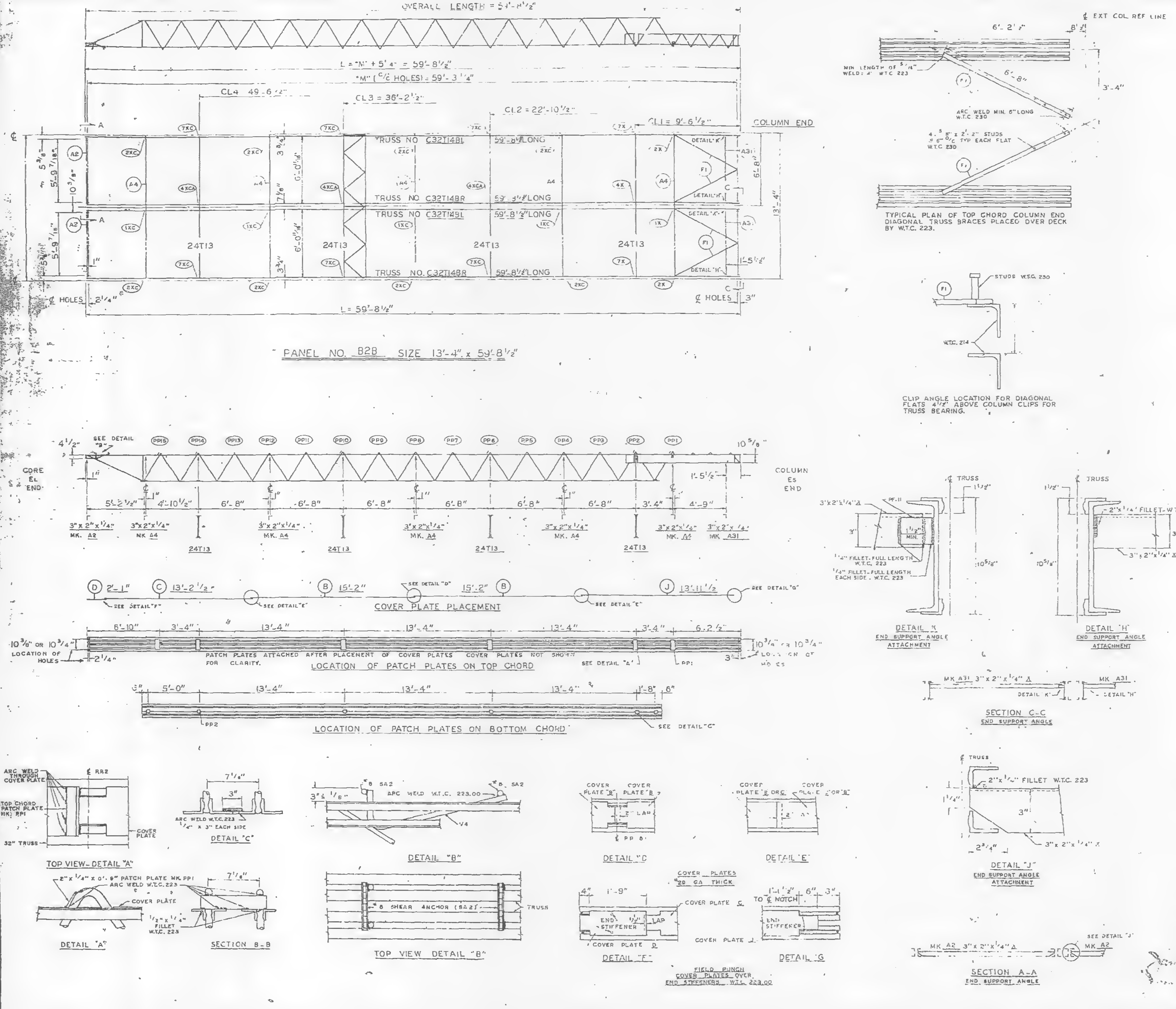
MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	T1	4	C32T1 57'-	ST201
TRUSSES	T13	4	24T13 13'-3"	BT213
	A2		4	ST403
	A4	5	3	ST403
	B	4		
	C	2	3	
		2	3" .035	
		16	2" x 1 1/2" x 1/4" x 0'-6	ST 400
			REBAR	ST 400
	CS	4		
CONNECTION PLATES	P1	5	3' 2" x 3/8" x 6' 2"	ST 400
	P2	4	4 1/2" x .30" x 0'-0"	ST 400
	P3	3	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

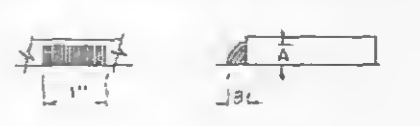
BLDG A FLOORS 74 (N)
PANEL BRI - 13'-4" x 57'
BLDG. B FLOORS - 74 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO.
DRAWN BY
CHECKED BY
IN CHARGE
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP BRI


OVERALL LENGTH = 54'-8½"
L = "M" + 5'-4" = 59'-8½"
"M" (C/C HOLES) = 59'-3¼"
CL4 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-6½"
COLUMN END
TRUSS NO C32T14BL 59'-8½" LONG
TRUSS NO C32T14BR 59'-8½" LONG
TRUSS NO C32T14BL 59'-8½" LONG
TRUSS NO. C32T14BR 59'-8½" LONG
24T13
DETAIL "K"
DETAIL "H"
13'-4"
℄ HOLES
L = 59'-8½"
PANEL NO. B2B SIZE 13'-4" x 59'-8½"
℄ EXT COL REF LINE
6'-2½"
6'-8"
3'-4"
MIN LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
CORE EL END
COLUMN ES END
5'-2½" 4'-10½" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x¼" MK. A2
3"x2"x¼" MK A4
3"x2"x¼" MK. A31
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
TOP VIEW-DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
#8 SHEAR ANCHOR (SA2)
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 20 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	14BL	2	C32T14BL x 59'-8½"	ST 214BL
	T14BR	2	C32T14BR x 59'-8½"	ST 214BL
BRIDGING TRUSSES	T13	4	24T13 x 13'-3"	BT 213
3"x2"x¼" ANGLE	A2	2	3"x2"x¼"x5'-11⁹⁄₁₆"	ST 403
	A4	5	[illegible]	ST 403
	A31	2	3"x2"x¼"x5'-[illegible]	ST 410
CLOSURE PLATES	[illegible]	[illegible]	3"x¼"x[illegible]	ST 412
DIAGONAL FLATS	F	4	[illegible]x⅝"x6'-8"	ST 402
PATCH PLATES	PP1	[illegible]	2"x¼"x0'-9"	ST 400
	PP2	12	3"x⅜"x0'-3"	ST 400
COVER PLATES	B	4	9"x.0135"x15'-2"	ST 303
	C	2	9"x.0135"x13'-2½"	ST 303
	D	2	9"x.0135"x2'-1"	ST 303
	J	2	9"x.0135"x13'-11½"	ST 304
ANGLE CLIPS	C1	16	2"x1½"x.25"x6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	[illegible]x1'-3"	ST 400
CONNECTION PLATES	P1	4	3½"x⅜"x0'-6½"	ST 400
	P2	4	4½"x.39"x0'-9"	ST 400
	P3	4	4½"x.39"x1'-0"	ST 400
	P9	4	3"x½"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x¼" FULL THROAT FILLET.



NO.	DATE	REVISION	BY

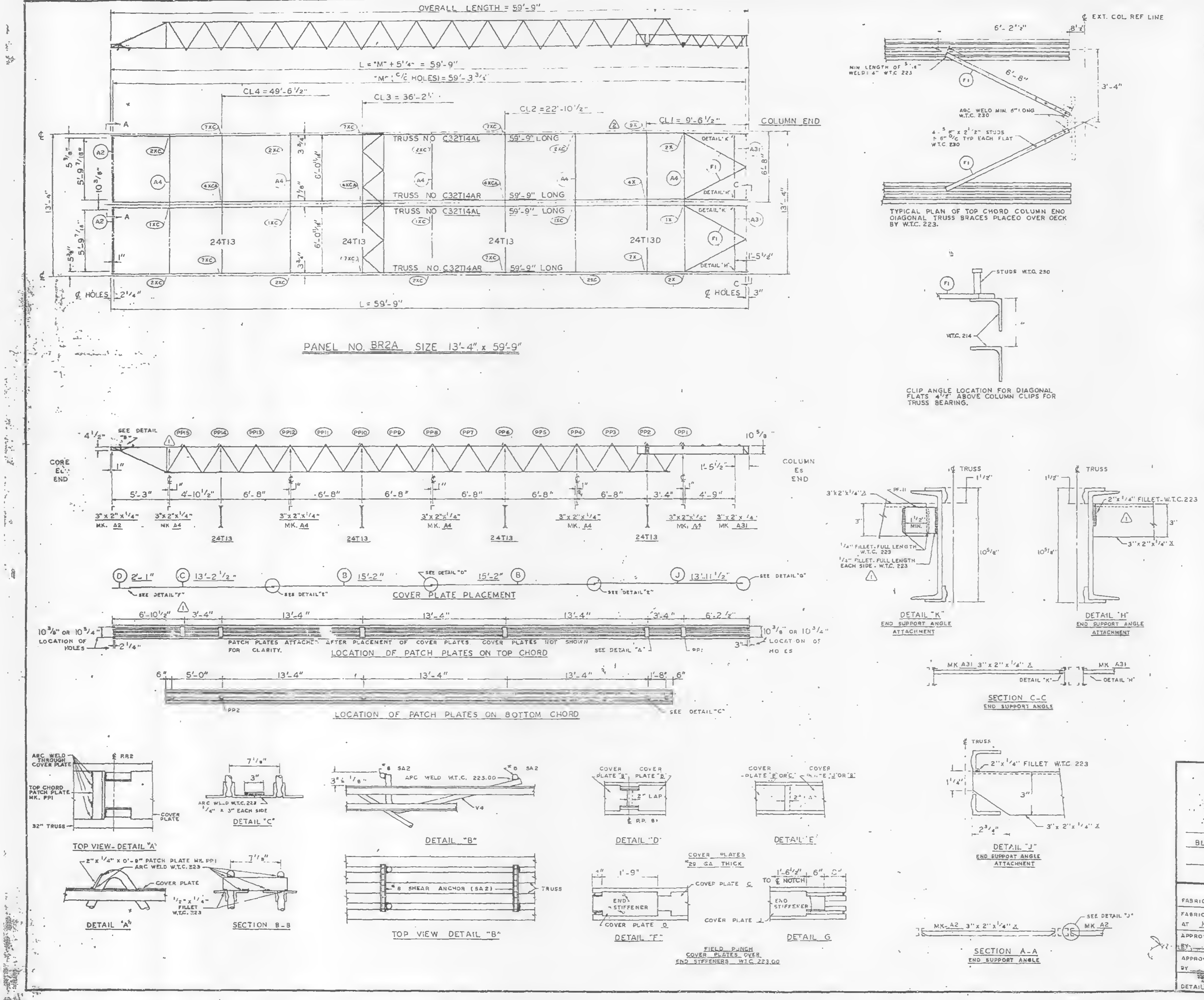
REF. DRWG.

7-AB3-25	10-4-68
7-AB1-13	10-4-68
7-AB2-6	7-22-68
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

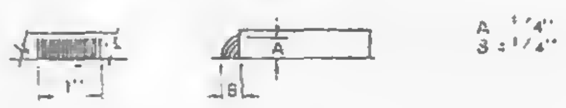
BLDG. A FLOORS 92 (NORTH)
PANEL B28-13'-4 x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible] FOR PONYA DATE 6/6/69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
DESIGN DRAWING NO 7-AB3-26 PLATE
DRAWN BY Luch DATE APRIL 28, 1969
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
FABRICATION CONT NO W.T.C. 221
SHEET NO FP B28


OVERALL LENGTH = 59'-9"
L = "M" + 5'-1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14AL 59'-9" LONG
TRUSS NO C32T14AR 59'-9" LONG
TRUSS NO C32T14AL 59'-9" LONG
TRUSS NO C32T14AR 59'-9" LONG
24T13
24T13
24T13
24T130
DETAIL "K"
DETAIL "H"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-9"
13'-4"
PANEL NO. BR2A SIZE 13'-4" x 59'-9"
℄ EXT. COL REF LINE
6'-2 1/2"
8 1/2"
6'-8"
3'-4"
MIN LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
CORE END
COLUMN END
5'-3" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
6'-10 1/2" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
6" 5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
3'x2"x1/4" PF-11
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE. W.T.C. 223
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET-W.T.C. 223
3"x2"x1/4"
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4"
SECTION C-C END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK-A2 3"x2"x1/4"
SEE DETAIL "J"
SECTION A-A END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
TOP VIEW-DETAIL "A"
2"x1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
DETAIL "A"
1/2"x1/4" FILLET W.T.C. 223
SECTION B-B
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
COVER PLATE "D"
2" LAP
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATES 20 GA THICK
END STIFFENER
COVER PLATE C
COVER PLATE D
DETAIL "F"
TO ℄ NOTCH
COVER PLATE J
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS	SIZE	DRWG.
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13		24T13 x 13'-3"	BT 213
	T130	1	24T130 x 13'-3"	BT 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x 13'-3"	ST 403
	A31	2	3"x2"x1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠2	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	3	4 1/2"x .39"x 0'-9"	ST 400
	P3	3	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409
	P10	1	4 1/2"x .39"x 0'-5"	ST 409
	P11	1	3"x 1/4"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie, (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CO 210 THRU CO 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"-1/4" FULL THROAT FILLET.



NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	G.D.C
1	2-4-69	AS NOTED	G.O.C

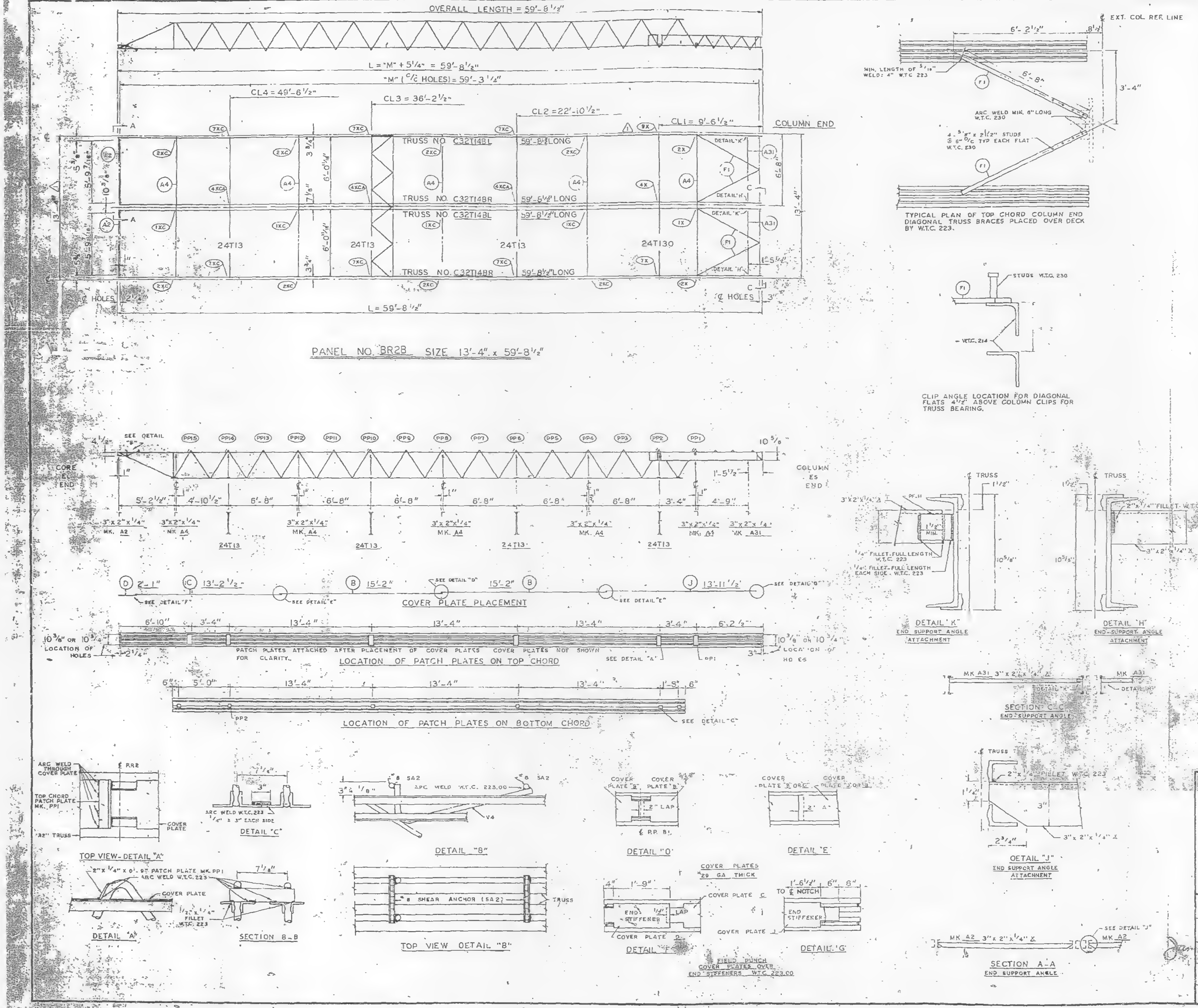
REF DRWG.

7-A83-27	10-4-68
7-A81-13	10-4-68
7-A92-8	7-22-68
7-A94-28	7-22-68
SA-124	10-11-68
7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N · Y · C
FOR
THE PORT OF NEW YORK AUTHORITY

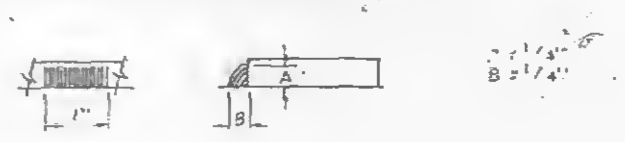
BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
· PANEL BR2A-13'-4" x 59'-9" ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-27
PLATE
APPROVED FOR FABRICATION BY FOR P O N Y A DATE 6/6/69
DRAWN BY
DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA
DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR2A



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14BL	2	C32T14BL x 59'-8 1/2"	ST 214BL
	T14BR	2	C32T14BR x 59'-8 1/2"	ST 214BL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T130 x 13'-3"	BT 2130
3" x 2" x 1/4" ANGLE	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
	A31	2	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES ⚠	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409
	P10	1	4 1/2" x .39" x 0'-5"	ST 409
	P11	1	3" x 1/4" x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



⚠	5-12-69	AS NOTED	GDC
NO.	DATE	REVISION	BY

REF DRWG.

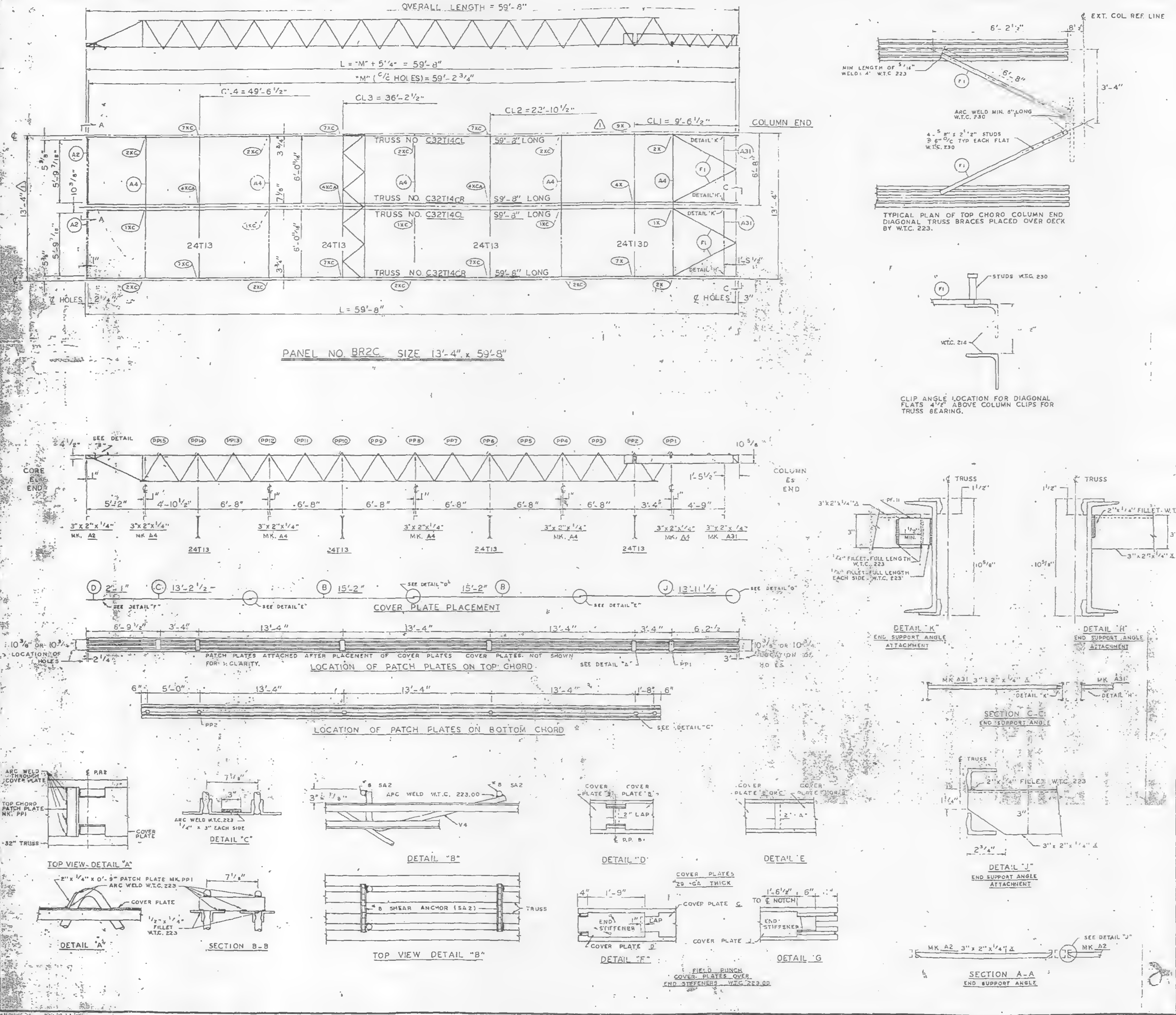
7-A83-27	10-4-68
7-A81-13	10-4-68
7-A82-8	7-22-66
7-A84-28	7-22-68
SA-124	10-11-68
7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)

PANEL BR28-13'-4" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-27
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 6/6/69
DRAWN BY
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP BR28


OVERALL LENGTH = 59'-8"
L = "M" + 5'/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
24T13
24T13
24T13
24T13D
DETAIL "K"
DETAIL "H"
13'-4"
℄ HOLES
L = 59'-8"
PANEL NO. BR2C SIZE 13'-4" x 59'-8"
CORE END
COLUMN END
3"x 2"x 1/4" MK. A2
3"x 2"x 1/4" MK. A4
3"x 2"x 1/4" MK. A31
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
6'- 2 1/2"
8' 2"
℄ EXT. COL REF. LINE
MIN LENGTH OF 5/16" WELD: 4" W.T.C 223
6'-8"
3'-4"
ARC WELD MIN. 8" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
℄ TRUSS
3"x2"x1/4" ∠
PF. 11
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
2"x 1/4" FILLET - W.T.C. 223
3"x 2"x 1/4" ∠
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3" x 2" x 1/4" ∠
SECTION C-C END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
#8 SHEAR ANCHOR (SA2)
ARC WELD W.T.C. 223.00
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 29 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
2"x 2"x 1/4" FILLET W.T.C. 223
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3" x 2" x 1/4" ∠
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 2130
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x 13'-3"	ST 403
	A31	2	3"x2"x1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF.11	2	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER, PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	3	4 1/2"x .39"x 0'-9"	ST 400
	P3	3	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409
	P10	1	4 1/2"x .39"x 0'-5"	ST 409
	P11	1	3" x 1/4"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

1	5-12-69	AS NOTED	G.D.C
NO.	DATE	REVISION	BY

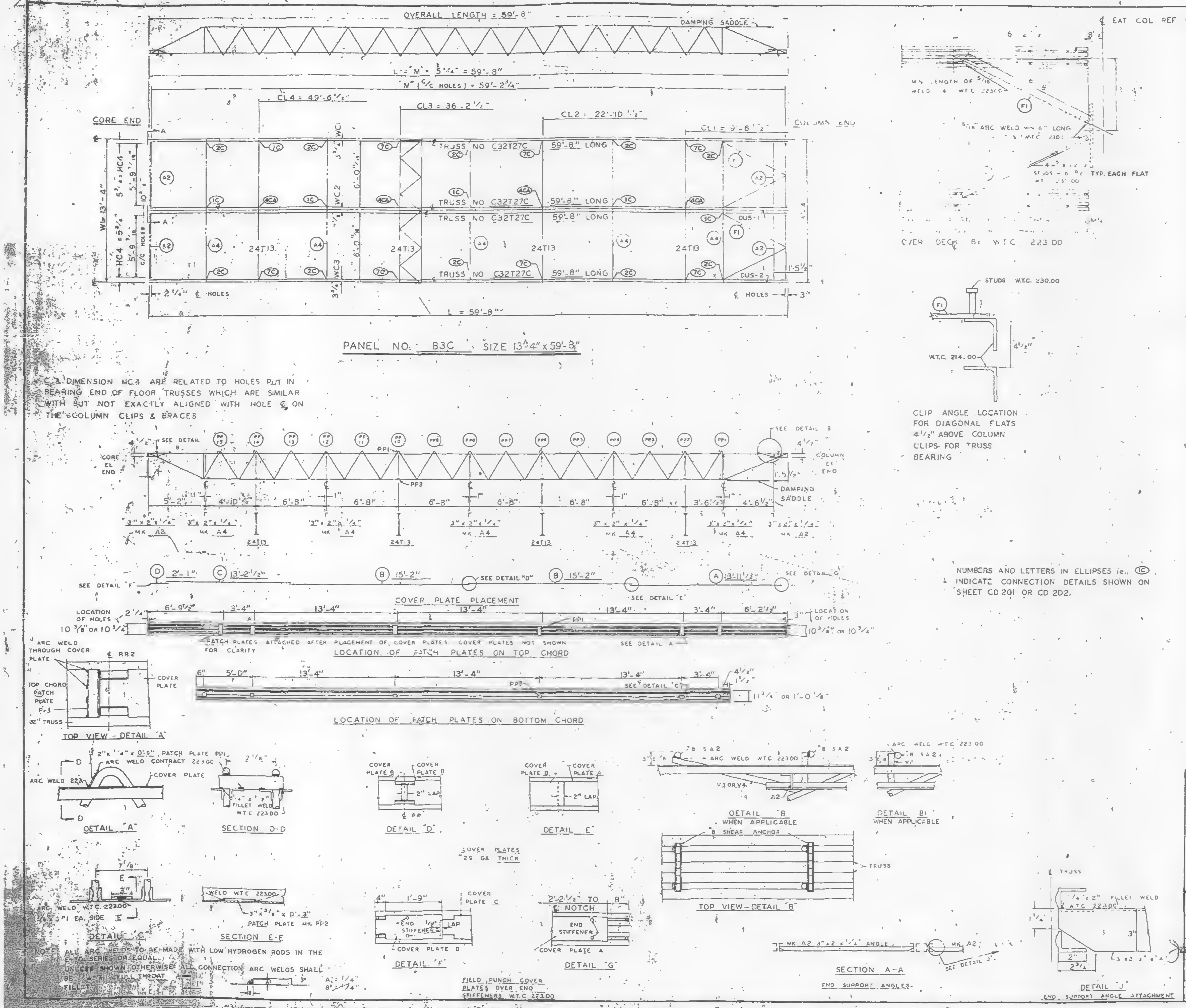
REF. DRWG.		
	7-A83-27	10-4-68
	7-A81-13	10-4-68
	7-A82-8	7-22-68
	7-A84-28	7-22-68
	SA-124	10-11-68
	7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)

PANEL BR2C-13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-A83-27 PLATE
APPROVED FOR FABRICATION BY FOR PO NYA — DATE 6/6/69	DRAWN BY luh DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969 — IN CHARGE OF PROD. DEV
DETAILED BY A.C. WEBER	FABRICATION CONT NO W.T.C. 221 — SHEET NO FP BR2C



C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES ie., ⓘC INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T27C	4	C32T27C-59'-8"	ST227C
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST402
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x 0.0135" x 13'-1 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-8"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

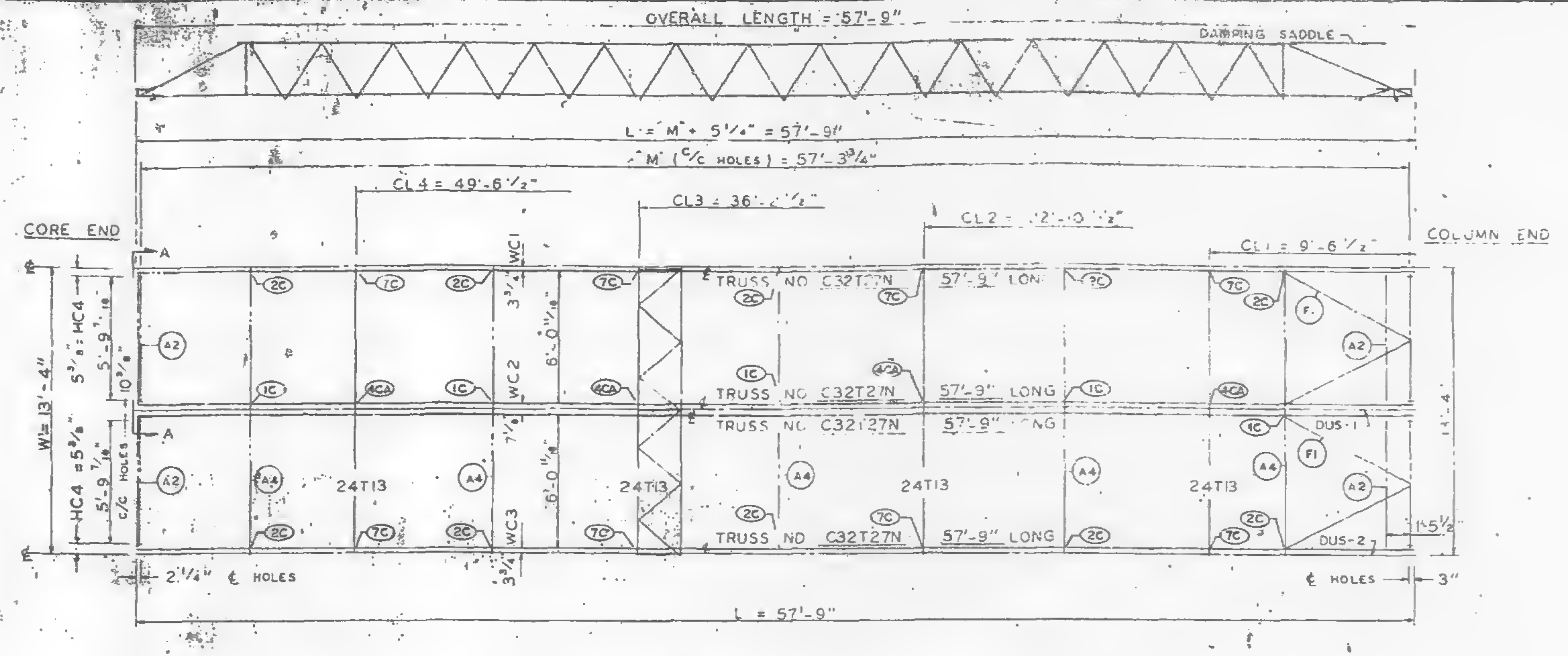
REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-124	1-8-69
7-AB3-43	1-6-69
7-AB1-424	1-6-69
7-AB4-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

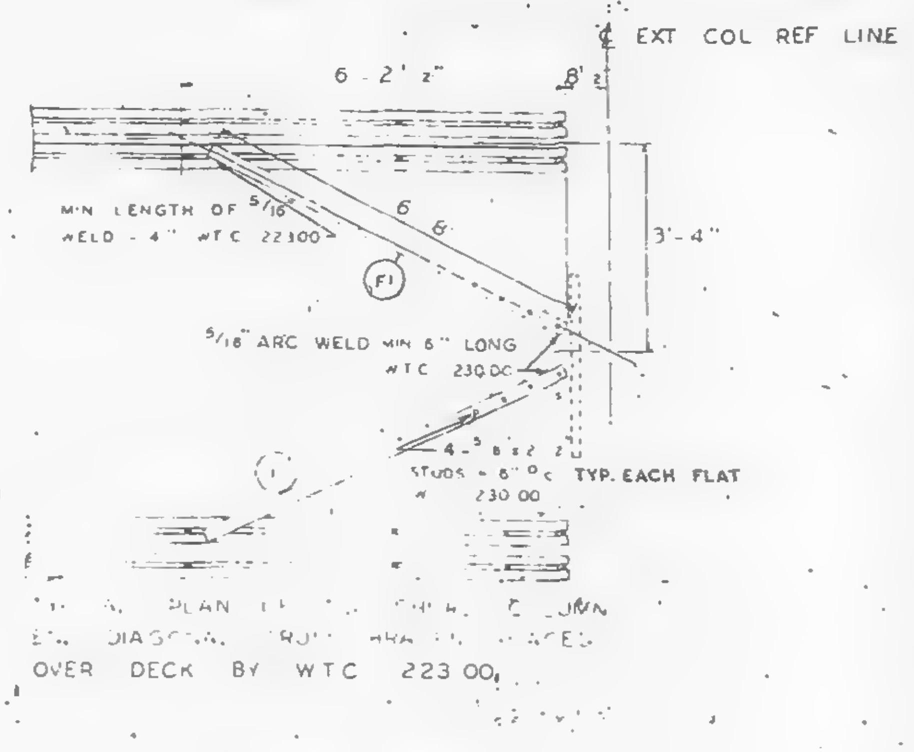
BLDG A FLOORS 78 (SOUTH)
PANEL B3C - 13'-4" x 59'-8"
BLDG. B FLOORS 78 (EAST)

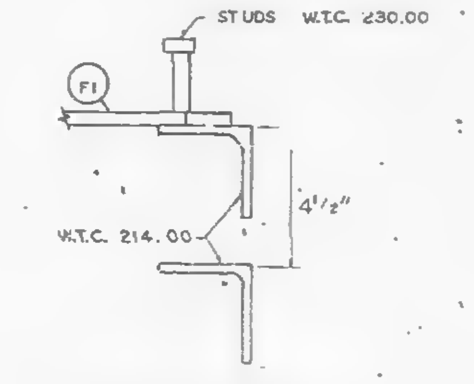
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-43	PLATE
APPROVED FOR FABRICATION BY James ... FOR PONYA	DATE 7/31/69	DRAWN BY ... DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A C WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP B3C



PANEL NO. B3N SIZE 13'-4" x 57'-9"

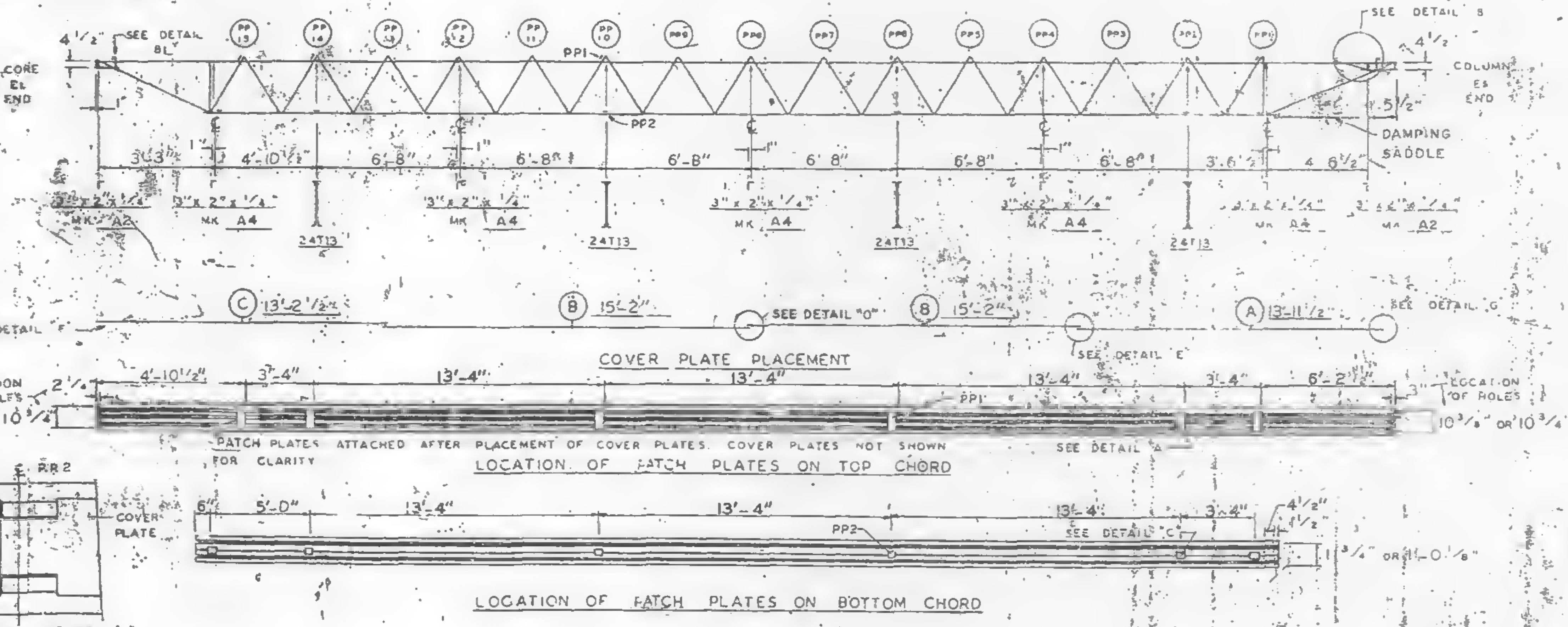

6'-2 1/2"
8"
℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD - 4" W.T.C 223.00
3'-4"
F1
5/16 ARC WELD MIN 6" LONG W.T.C 230.00
4-5/8 x 2 1/2 STUDS - 6" C/C TYP. EACH FLAT W.T.C 230.00
TYPICAL PLAN OF DIAGONAL FLATS OVER DECK BY W.T.C. 223.00



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T2-N	4	C32T27N-57'-9"	ST2??
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
ANGLE CLIPS	C1	12	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-7 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2"x3/8"x6 1/2"	ST400
	P2	4	4 1/2"x.30"x0'-8"	ST400
	P3	4	4 1/2"x.30"x1'-0"	ST400

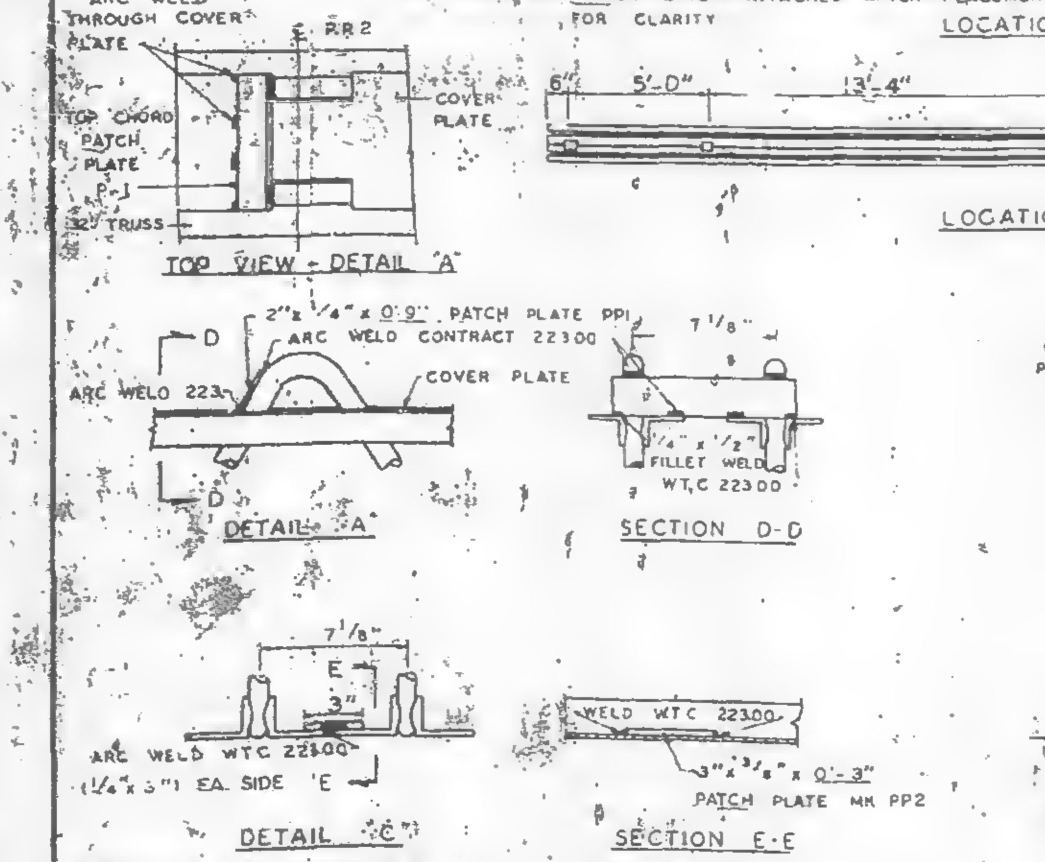
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

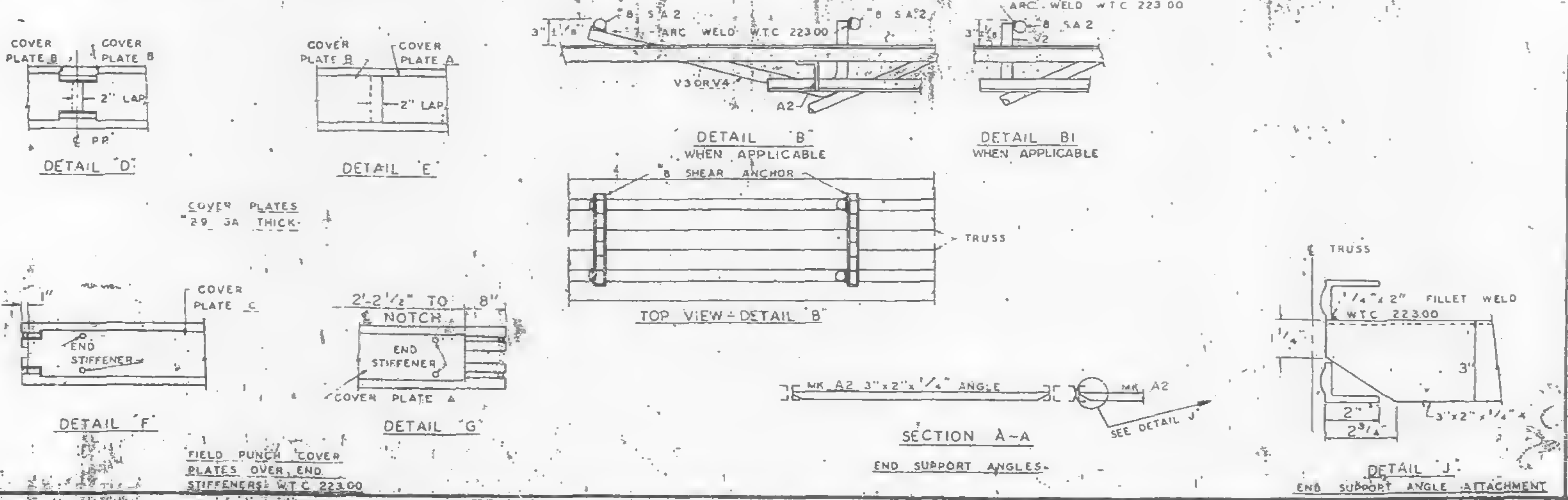


NUMBERS AND LETTERS IN ELLIPSES i.e., ⓘC INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4 15 & 16	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-43	1-6-69
7-AB1-24	1-6-69
7-AB2-6	7-22-68





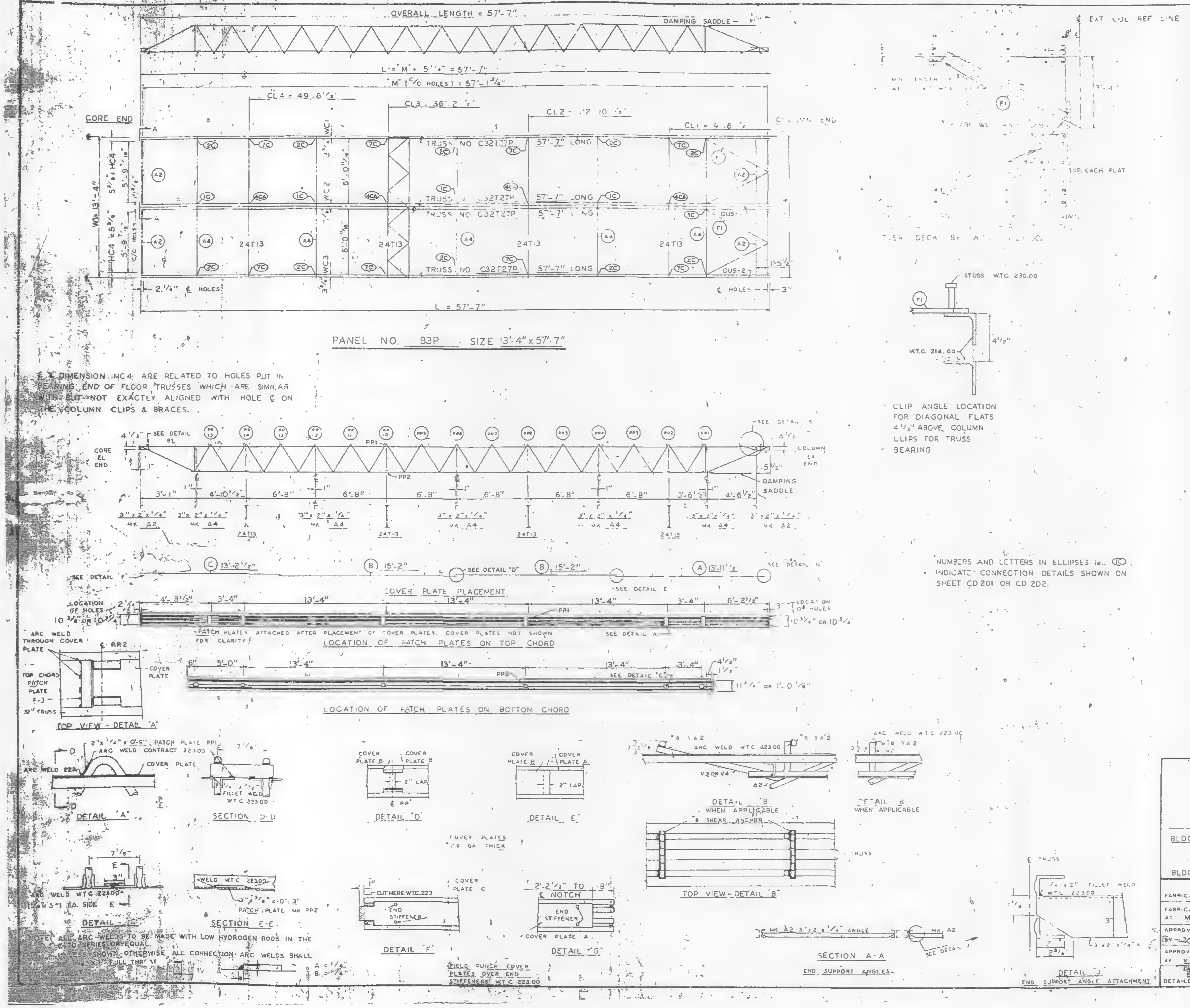
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE, ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 44 (EAST)
PANEL B3N - 13'-4" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-43	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 7/31/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DIV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP B3N



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC-WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL 1/4" x 1" FULL THROAT

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T27P	4	C32T27P-57'-7"	ST227P
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
[illegible] ANGLE	A2	[illegible]	3"x2"x1/4"x5'-9 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
[illegible]	F	4	1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	[illegible]	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
ANGLE CLIPS	C1	12	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS1	1	3 1/2"x3 1/2"x3/8"x3'-3 7/8"	ST298
	DUS2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2"x3/8"x6 1/2"	ST400
	P2	4	4 1/2"x.30"x0'-9"	ST400
	P3	4	4 1/2"x.39"x1'-0"	ST400

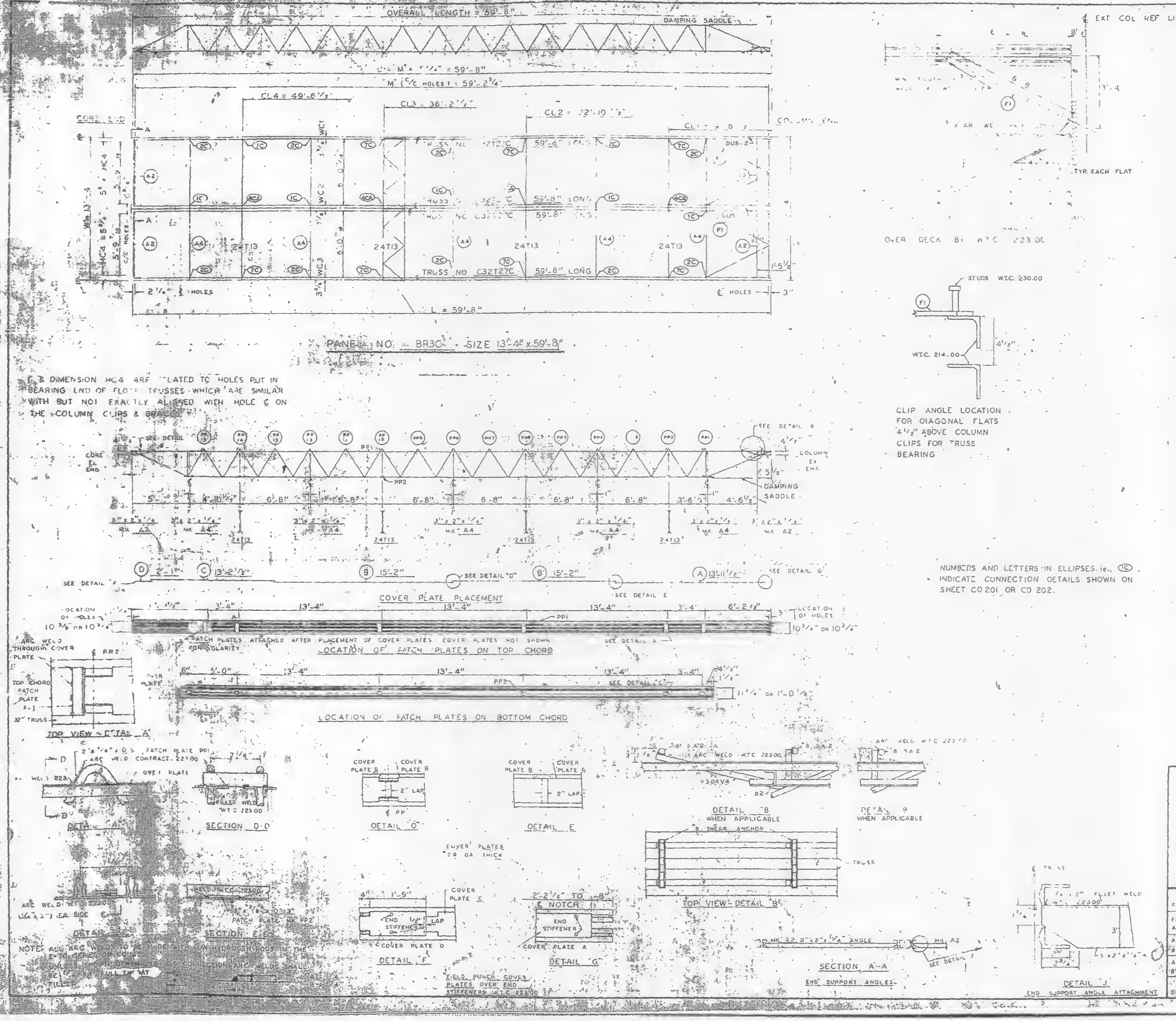
NO.	DATE	REVISION	BY

REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & S 7-22-68
7-AB4-42 10-15-68
SA 24 1-6-69
7-AB3-43 1-6-69
7-AB 24 1-6-69
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 78 (NORTH)
PANEL B3P 13'-4" x 57'-7"
BLDG. B FLOORS 78 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-43	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE 7/3/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP B3P


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
"L" "M" + 1"/2" = 59'-8"
M (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CORE END
COLUMN END
TRUSS NO C32T27C 59'-8" LONG
24T13
WC1
WC2
WC3
HC4
2 1/4" HOLES
L = 59'-8"
PANEL NO. BR3C SIZE 13'-4" x 59'-8"
C & B DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.
EXT COL REF LINE
TYP. EACH FLAT
OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
SEE DETAIL B
COLUMN END
DAMPING SADDLE
5'-0" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-6 1/2" 4'-6 1/2"
MK A2 MK A4 MK A4 MK A4 MK A4 MK A4 MK A2
NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
D 2'-1" C 13'-2 1/2" B 15'-2" B 15'-2" A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL G
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8" OR 10 3/4"
3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0" 13'-4" 13'-4" 13'-4" 3'-4"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL E
COVER PLATES 29 GA THICK
DETAIL B WHEN APPLICABLE
TOP VIEW - DETAIL "B"
SECTION E-E
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T2	4	C32T [illegible] 59'-8"	ST2[illegible]
[illegible]	T3	4	24T[illegible] 3	ST 21[illegible]
[illegible] ANGLE	A2	4	[illegible]	ST4[illegible]
	A4	5	[illegible]	[illegible]
[illegible]	[illegible]	4	[illegible] 2 [illegible] 6 [illegible]	ST[illegible]
PATCH PLATES	[illegible]	12	[illegible]	[illegible]
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x .0135" x [illegible]	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-3 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0	ST 400

NO.	DATE	REVISION	BY

REF DRWG

7-AB4-A	10-15-68
7-AB4-[illegible] 6	7-22-68
7-AB4-42	10-15-68
SA-[illegible]	1-6-69
7-AB3-44	1-6-69
7-AB[illegible]-24	1-6-69
7-AB2-R	7-22-68

FLOOR PANEL DETAILS

[illegible]

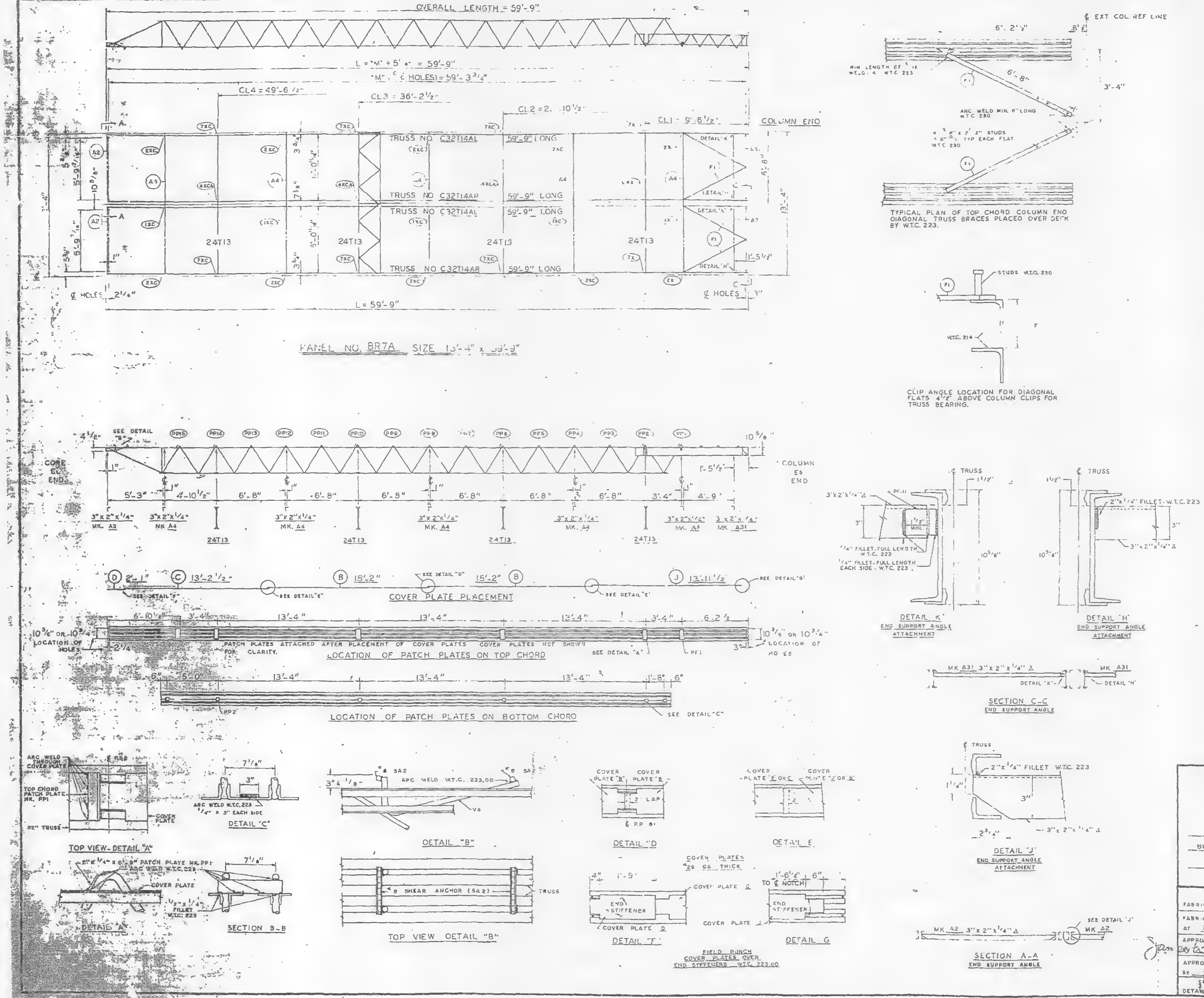
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOOR 78 (SOUTH)

PANEL BR3C - [illegible]4" x 59'-8"

BLDG B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. AB3-44	PLATE [illegible]
APPROVED FOR FABRICATION BY DA White FOR PONYA	DATE 7/31/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF FABR. ENG.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FD BR3C


OVERALL LENGTH = 59'-9"
L = "M" + 5' 4" = 59'-9"
"M", ℄ ℄ HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 2_'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T13
DETAIL "K"
DETAIL "H"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-9"
13'-4"
PANEL NO. BR7A SIZE 13'-4" x 59'-9"
℄ EXT COL REF LINE
6'-2 1/2"
6'-8"
3'-4"
MIN. LENGTH OF ½" FILLET WELD W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
STUDS TYP. EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL "B"
CORE EL END
COLUMN ES END
5'-3"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
1'-5 1/2"
10 5/8"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
13'-2 1/2"
15'-2"
13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
10 3/8" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
3"x2"x1/4"
TRUSS
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET W.T.C. 223
3"x2"x1/4"
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
SECTION C-C END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS
TOP VIEW - DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE MK. PP1 ARC WELD W.T.C. 223
DETAIL "A"
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
1/2"x1/4" FILLET W.T.C. 223
SECTION B-B
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TOP VIEW DETAIL "B"
COVER PLATE "B" COVER PLATE "B"
2" LAP
DETAIL "D"
COVER PLATE "C" OR "B"
DETAIL E
COVER PLATES #29 GA. THICK
END STIFFENER
COVER PLATE D
DETAIL "F"
TO ℄ NOTCH
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
2"x1/4" FILLET W.T.C. 223
3"x2"x1/4" ∠
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK.	PCS	SIZE	DRWG
FLOOR TRUSSES	[illegible]	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AR
BRIDGING TRUSSES	[illegible]	[illegible]	[illegible] x 13'-3"	ST 213
3"x 2"x 1/4" ANGLE	A2	2	[illegible] x 5'-11 9/16"	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 410
CLOSURE [illegible]	[illegible]	[illegible]	[illegible]	ST 4_2
DIAGONAL FLAT	[illegible]	4	[illegible] x 6'-8"	ST 402
PATCH PLATE	[illegible]	2	[illegible] x 0'-9"	ST 400
	PP2	12	3 x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	6	2"x 1 1/2"x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	[illegible]	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3" 2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	[illegible]" x .39" x 0'-9"	ST 400
	P3	4	4" [illegible]" x .39" x 1'-0"	ST 400
	P9	4	3 x [illegible] 2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CO 210 THRU CO 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

A : 1/4"
B : 1/4"

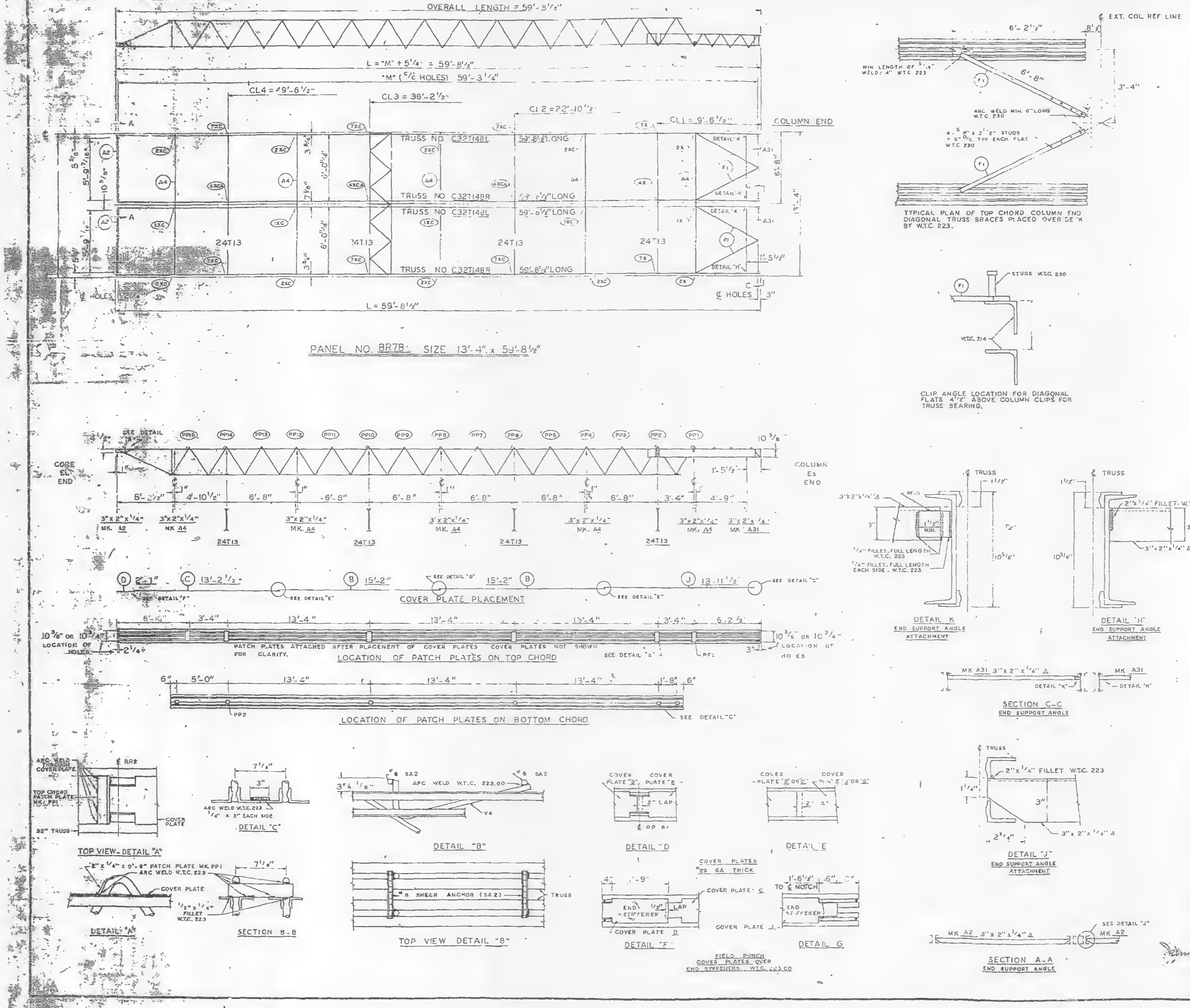
NO.	DATE	REVISION	BY

REF. DRWG.

7-AB3-27	10-4-68
7-AB1-13	10-4-68
7-AS2 8	7-22-68
7-AB4-28	7-22-68
SB-124	3-24-65
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)
PANEL BR7A - 13'-4 x 59'-9

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-27
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 6/6/69
DRAWN BY Luk DATE MAY 8, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY R.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP BR7A


OVERALL LENGTH = 59'-8 1/2"
L = "M" + 5 1/4" = 59'-8 1/2"
"M" (C/C HOLES) 59'-3 1/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14BL 59'-8 1/2" LONG
TRUSS NO. C32T14BR 59'-8 1/2" LONG
TRUSS NO. C32T14BL 59'-8 1/2" LONG
TRUSS NO. C32T14BR 59'-8 1/2" LONG
24T13
DETAIL "K"
DETAIL "H"
℄ HOLES
L = 59'-8 1/2"
PANEL NO. BR7B: SIZE 13'-4" x 59'-8 1/2"
SEE DETAIL "A"
CORE EL END
COLUMN ES END
5'-2 1/2"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
6'-8"
MIN LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
℄ EXT. COL REF LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DETAIL K BY W.T.C. 223.
STUDS W.T.C. 230
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL K
END SUPPORT ANGLE ATTACHMENT
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT
SECTION C-C
END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "C"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
2"x1/4"x0'-9" PATCH PLATE MK. PP1 ARC WELD W.T.C. 223
DETAIL "A"
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TOP VIEW DETAIL "B"
COVER PLATES "29 GA THICK"
DETAIL "F"
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	14BL	2	C32T14BL x 59'-8 1/2"	ST 214BL
	14BR	2	C32T14BR x 59'-8 1/2"	ST 214BL
BRIDGING TRUSSES	T13	4	24T13 x 13'-3"	ST 213
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF	2	3"x1/4"x0'-2 3/8"	ST 4 2
DIAGONAL FLATS	F	4	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	2	2"x1/4"x0'-9"	ST 400
	PP2	12	3"x3/8"x0'-3"	ST 400
COVER PLATES	B	4	9"x.0135"x15'-2"	ST 303
	C	2	9"x.0135"x13'-2 1/2"	ST 303
	D	2	9"x.0135"x2'-1"	ST 303
	J	2	9"x.0135"x13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x1 1/2"x.25"x6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	2	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x3/8"x0'-6 1/2"	ST 400
	P2	4	4 1/2"x.39"x0'-9"	ST 400
	P3	4	4 1/2"x.39"x1'-0"	ST 400
	P8	4	3"x1/2"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

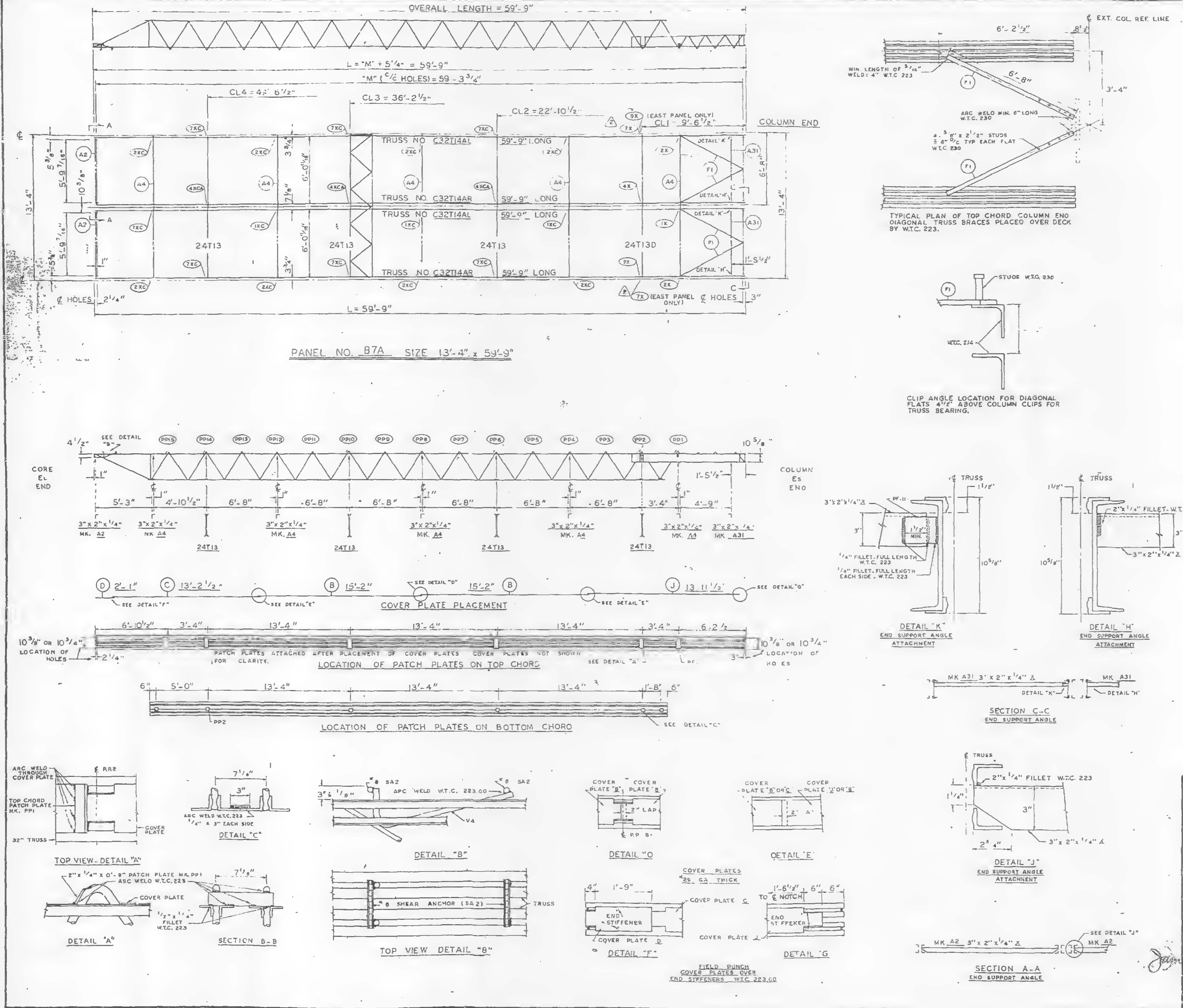
NO.	DATE	REVISION	BY

REF. DRWG.		
	7-A83-23	10-4-68
	7-A81-13	10-4-68
	7-A82-8	7-22-68
	7-A84-28	7-22-68
	SB-124	3-24-69
	7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

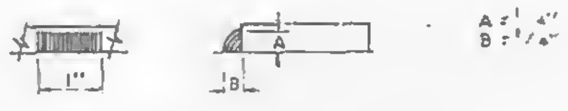
BLDG. B FLOORS 5C (WEST)
PANEL BR7B - 13'-4" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-[illegible]
PLATE
APPROVED FOR FABRICATION FOR PONYA DATE 6/6/69
DRAWN BY [illegible] DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP BR7B


OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59 - 3 3/4"
CL4 = 48'-8 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 - 9'-6 1/2"
(EAST PANEL ONLY)
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T13
24T13D
DETAIL "K"
DETAIL "H"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-9"
13'-4"
PANEL NO. B7A SIZE 13'-4" x 59'-9"
EXT. COL. REF. LINE
6'-2 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4 - 3/8" x 2 1/2" STUDS @ 6" C/C TYP. EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUD W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
CORE EL END
COLUMN ES END
SEE DETAIL "B"
5'-3"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
1'-5 1/2"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
10 3/8" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "A"
SEE DETAIL "C"
PP2
5'-0"
13'-4"
1'-8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
TRUSS
3 1/2"x1/4" ⅃ PF-11
1/4" FILLET FULL LENGTH W.T.C. 223
1/4" FILLET FULL LENGTH EACH SIDE W.T.C. 223
2"x1/4" FILLET W.T.C. 223
3"x2"x1/4" ⅃
10 5/8"
SECTION C-C END SUPPORT ANGLE
MK. A31 3"x2"x1/4" ⅃
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
MK. A2 3"x2"x1/4" ⅃
SEE DETAIL "J"
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
TOP VIEW - DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE
DETAIL "A"
SECTION B-B
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TOP VIEW DETAIL "B"
COVER PLATE "B"
COVER PLATE "B"
2" LAP
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATES #26 GA. THICK
END STIFFENER
COVER PLATE C
COVER PLATE D
DETAIL "F"
DETAIL "G"
TO ℄ NOTCH
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PC.	SIZE	
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x 2"x 1/4"x 13'-3"	ST 403
	A31	2	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-1	-	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	18	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	" ø x 1'-3"	ST 400
CONNECTION PLATES △2	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	3* 4	4 1/2"x .39"x 0'-9"	ST 400
	P3	3* 4	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409
△1	P10	1*	4 1/2"x .39"x 0'-5"	ST 409
	P11	1*	3"x 1/4"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 62 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



△2 MATERIAL MARKED (*) IS FOR WEST PANELS ONLY.

NO.	DATE	REVISION	BY
△2	6-13-69	AS NOTED	G.D.C.
1	5-12-69	AS NOTED	G.D.C.

REF. DRWG.		
	7-A83-26	10-4-68
	7-A81-13	10-4-68
	7-A82-8	7-22-68
	7-A84-28	7-22-68
	58-124	3-24-69
	7-A83-24	8-15-68

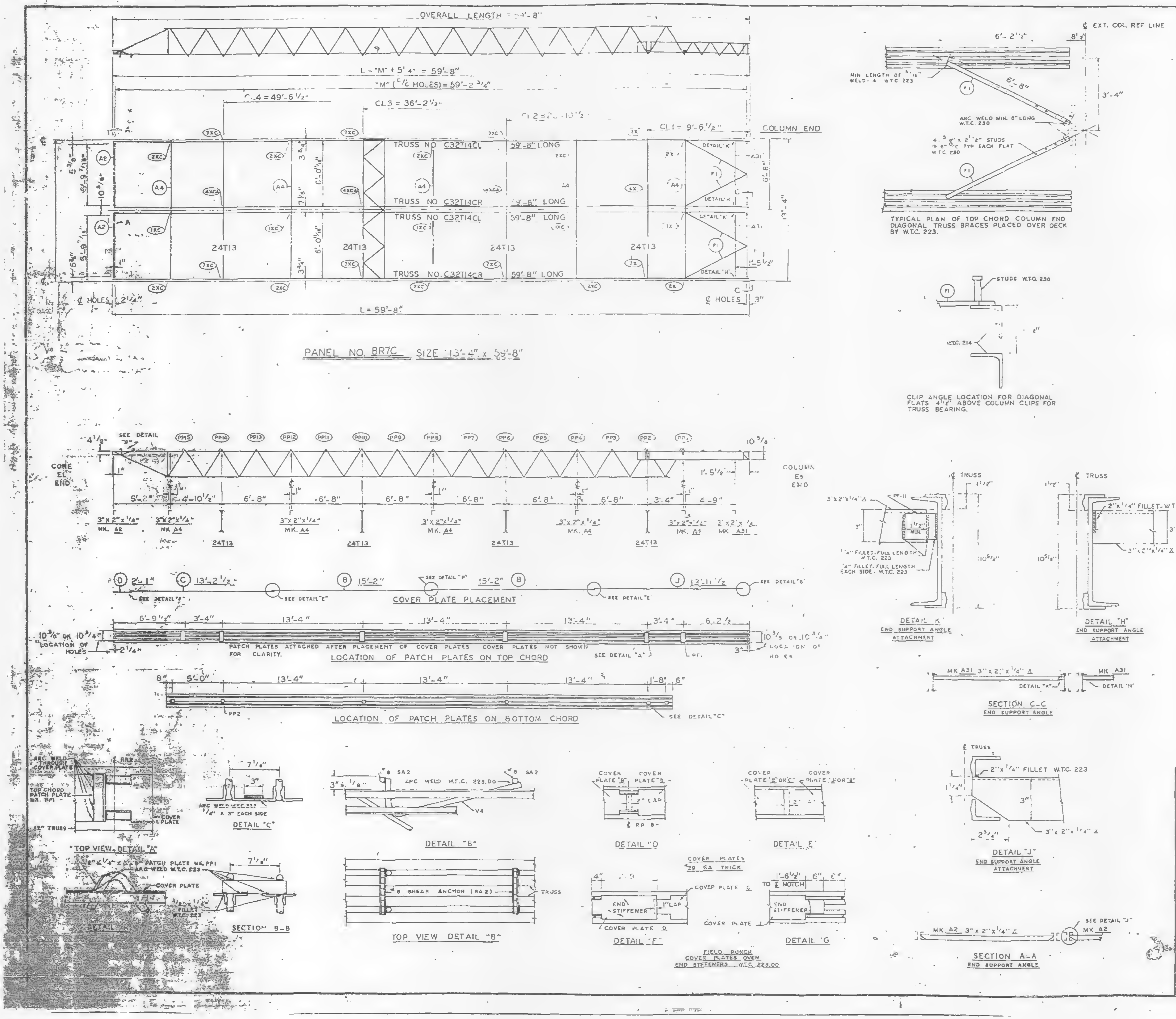
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

PANEL B7A-13'-4" x 59'-9"

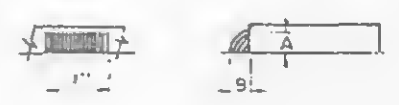
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-A83-26	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.	DATE 6/20/69	DRAWN BY Luk DATE MAY 6, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE MAY 8, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP B7A


OVERALL LENGTH = 64'-8"
L = "M" + 5'4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 23'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
24T13
DETAIL "K"
DETAIL "H"
A2
A4
A31
F1
2XC
7XC
4XCA
1XC
4X
7X
2X
1X
5 3/8"
5'-9 7/16"
10 3/8"
6'-0 1/16"
6'-8"
13'-4"
1'-5 1/2"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-8"
PANEL NO. BR7C SIZE 13'-4" x 59'-8"
℄ EXT. COL. REF LINE
6'-2 1/2"
8 1/2"
6'-8"
3'-4"
MIN LENGTH OF 5/16" WELD: 4 W.T.C. 223
ARC WELD MIN. 8" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
4 1/2"
10 5/8"
CORE EL END
COLUMN ES END
5'-2"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
1'-5 1/2"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK A4
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
6'-9 1/2"
13'-4"
6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES
2 1/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
PP1
8"
5'-0"
1'-8"
6"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS
TOP VIEW- DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
DETAIL "A"
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
1/4" FILLET W.T.C. 223
SECTION B-B
#8 SA2
3" 5 1/8"
ARC WELD W.T.C. 223.00
V4
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B" COVER PLATE "D"
2" LAP
℄ PP 8
DETAIL "D"
COVER PLATE "B" OR "C" COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATES #29 GA THICK
END STIFFENER
1" LAP
COVER PLATE C
COVER PLATE D
DETAIL "F"
TO ℄ NOTCH
1'-6 1/2"
COVER PLATE J
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
℄ TRUSS
1 1/2"
3"x2"x1/4" ∠
PF-11
1 1/2" MIN.
1/4" FILLET. FULL LENGTH W.T.C. 223
1/4" FILLET. FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET - W.T.C. 223
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
SECTION C-C END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
1 1/4"
2 3/4"
3"x2"x1/4" ∠
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	[illegible]	4	24T13 x 13'-3"	BT 213
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x 13'-3"	ST 403
	A31	2	3"x2"x1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	[illegible]	2	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	2"x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x 1/4" x 0'-9	ST 400
	PP2	12	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	B1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2"x .39"x 0'-9"	ST 400
	P3	4	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



A = 1/4"
B = 1/4"

NO	DATE	REVISION	BY

REF DRWG.

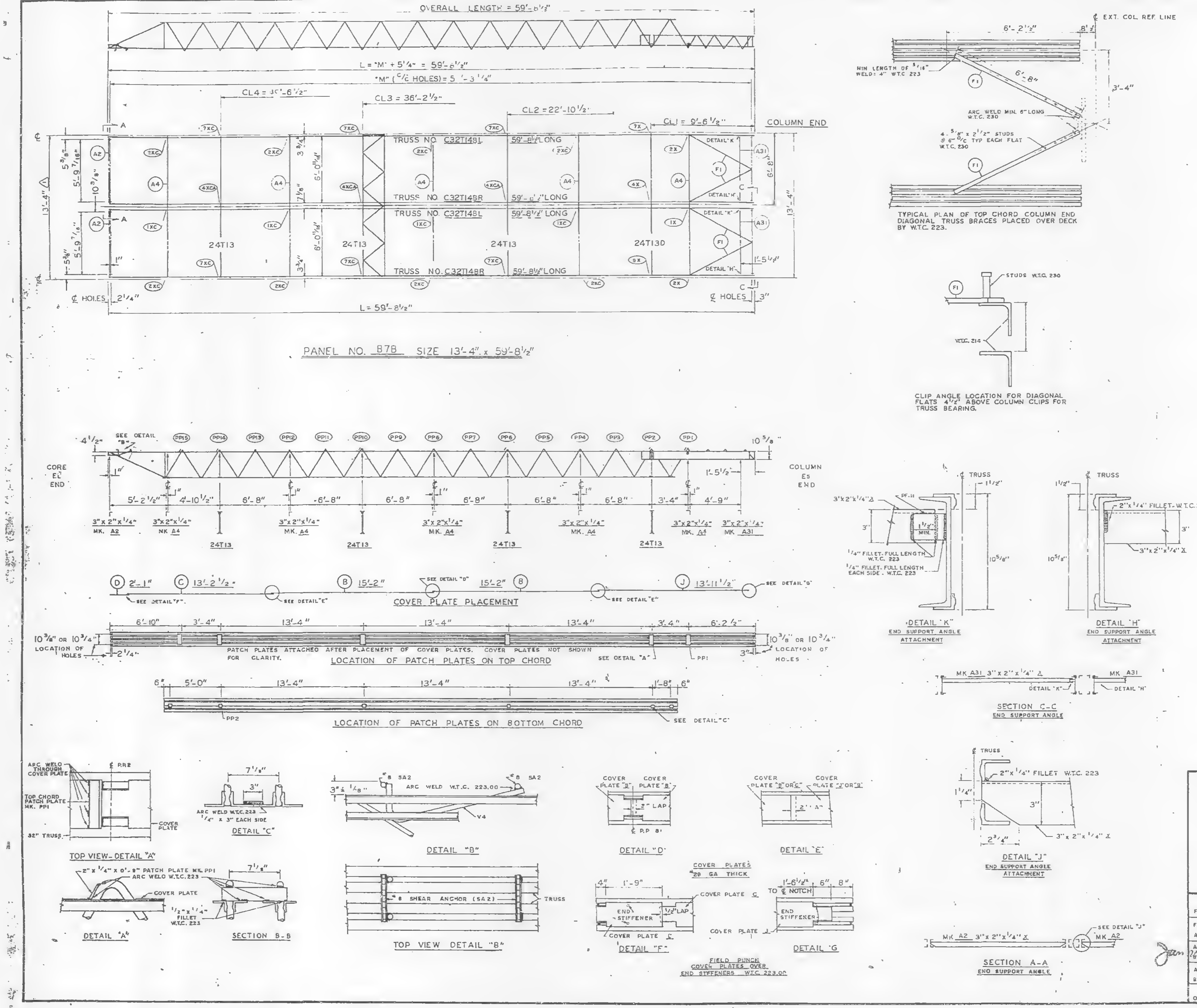
7-AB3-27	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-26	7-22-68
SB-124	3-24-69
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 59 & 92 EAST)

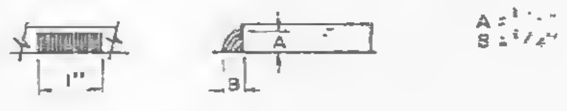
PANEL BR7C-13'-4"x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-27
PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA
DATE 6/6/69
DRAWN BY LuR
DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR
DATE
CHECKED BY T.M. CHURA
DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR7C


OVERALL LENGTH = 59'-8½"
L = "M" + 5¼" = 59'-8½"
"M" (C/L HOLES) = 59'-3¼"
CL4 = 36'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-6½"
COLUMN END
TRUSS NO. C32T148L 59'-8½" LONG
TRUSS NO. C32T148R 59'-8½" LONG
TRUSS NO. C32T148L 59'-8½" LONG
TRUSS NO. C32T148R 59'-8½" LONG
24T13
24T13
24T13
24T130
DETAIL "K"
DETAIL "H"
C/L HOLES 2¼"
C/L HOLES 3"
L = 59'-8½"
13'-4"
PANEL NO. B78 SIZE 13'-4" x 59'-8½"
EXT. COL. REF. LINE
6'-2½"
8½
6'-8"
3'-4"
MIN LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4-5/8" x 2½" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
CORE EL END
COLUMN ES END
5'-2½"
4'-10½"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-4"
4'-9"
3"x2"x¼" MK. A2
3"x2"x¼" MK. A4
3"x2"x¼" MK. A4
3"x2"x¼" MK. A4
3"x2"x¼" MK. A4
3"x2"x¼" MK. A4
3"x2"x¼" MK. A31
D 2'-1"
C 13'-2½"
B 15'-2"
B 15'-2"
J 13'-11½"
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
2"x¼" FILLET W.T.C. 223
¼" FILLET FULL LENGTH W.T.C. 223
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
#8 SHEAR ANCHOR (SA2)
DETAIL "D"
DETAIL "E"
COVER PLATES 28 GA THICK
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T148L	2	C32T148L x 59'-8½"	ST 2148L
	T148R	2	C32T148R x 59'-8½"	ST 2148L
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T130	1	24T13D x 13'-3"	BT 213D
3"x 2"x ¼" ANGLE	A2	2	3"x 2"x ¼"x 5'-11 9/16"	ST 403
	A4	5	3"x 2"x ¼"x 13'-3"	ST 403
	A31	2	3"x 2"x ¼"x 5'-8⅛"	ST 410
CLOSURE PLATES	PF-11	2	3"x ¼" x 0'-2⅜"	ST 4 2
DIAGONAL FLATS	F1	4	1½" x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x ¼" x 0'-9"	ST 400
	PP2	12	3"x ⅜" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2½"	ST 303
	O	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11½"	ST 304
ANGLE CLIPS	C1	16	2"x 1½"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3½"x ⅜"x 0'-6½"	ST 400
	P2	3	4½"x .39"x 0'-9"	ST 400
	P3	3	4½"x .39"x 1'-0"	ST 400
	P9	4	3"x ½"x 1'-2"	ST 409
	P10	1	4½"x .39"x 0'-5"	ST 409
	P11	1	3"x ¼"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x¼" FULL THROAT FILLET.



NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.O.

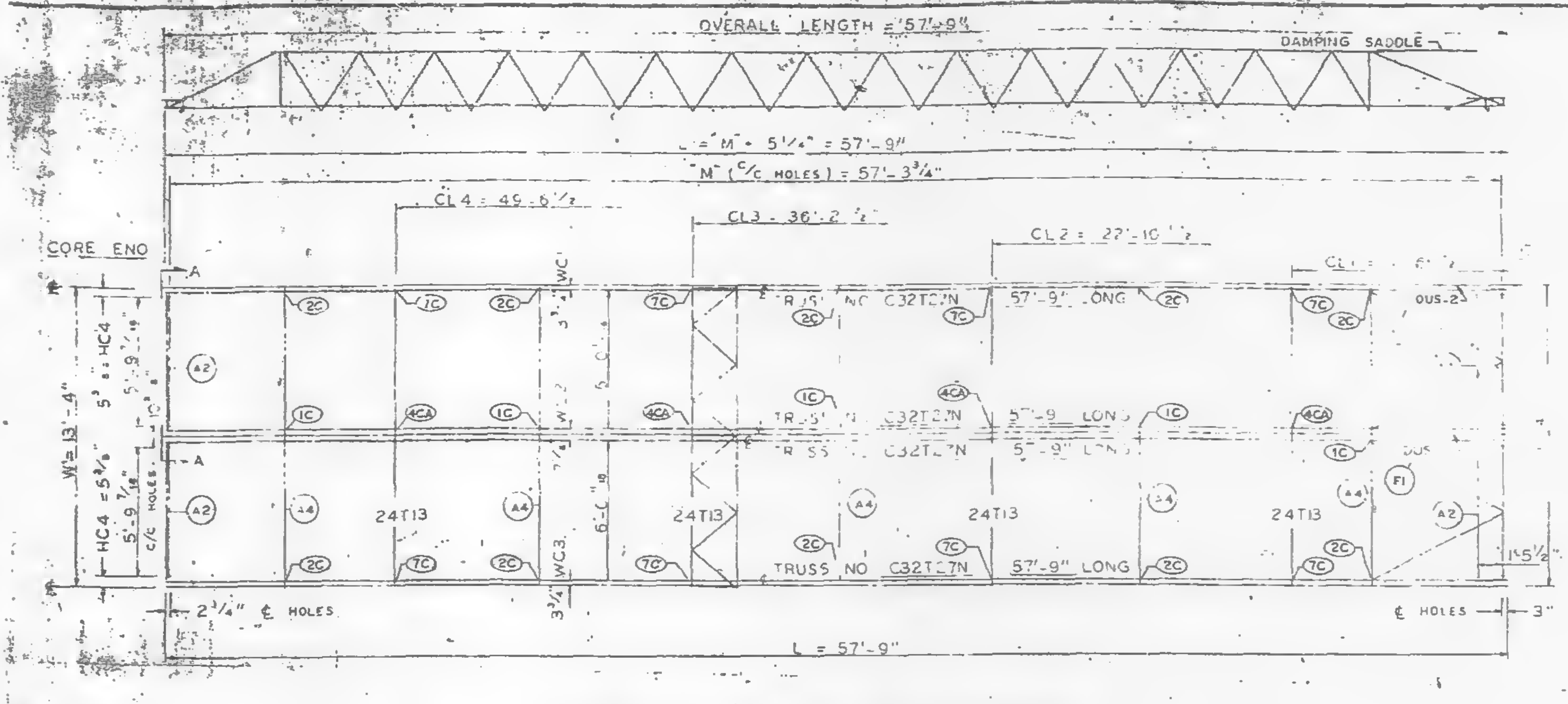
REF DRWG.		
	7-A83-26	10-4-68
	7-A81-13	10-4-68
	7-A82-8	7-22-68
	7-A84-28	7-22-68
	S8-124	3-24-69
	7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

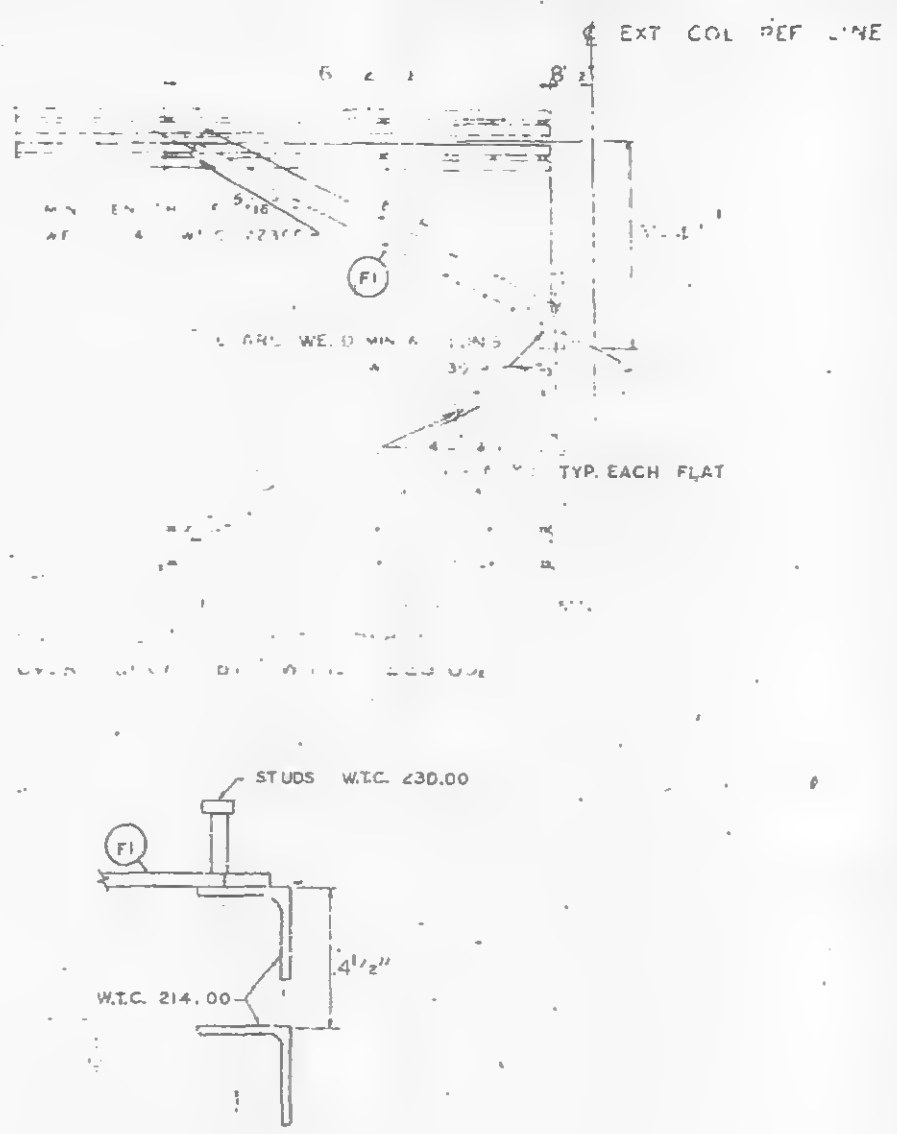
BLDG. 8 FLOORS 92 (WEST)

PANEL B78 - 13'-4" x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-26
PLATE
APPROVED FOR FABRICATION BY FOR P O N Y A
DATE 6/6/69
DRAWN BY
DATE MAY 8, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY T.M. CHURA
DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W T C 221
SHEET NO FP B78



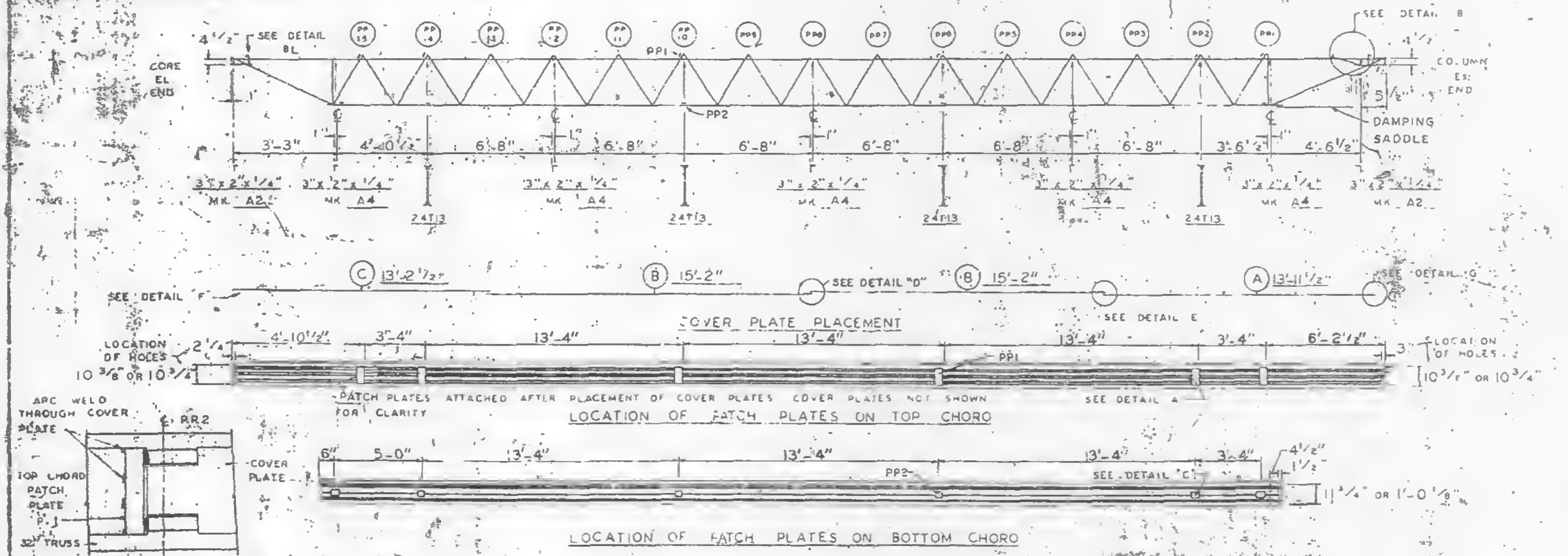
PANEL NO. BR3N SIZE 13'-4" x 57'-9"



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
[illegible] TRUSSES	[illegible]	4	C32T[illegible]N-5[illegible]9	ST2
[illegible]	[illegible]	4	24T[illegible] 3 [illegible]	BT[illegible]3
[illegible]	A4	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	4	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
COVER PLATE	B	4	9" x .0135 x 15'-2"	ST303
	C	2	9" x .0135" x 13-2 1/2	ST303
ANGLE CLIPS	[illegible]	12	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#5 SHEAR ANCHOR	AA2	8	#5 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-3 7/8"	ST298
	DUS-2	[illegible]	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-6"	ST 400
	P3	4	4 1/2" x .39" x 1'-0	ST 400

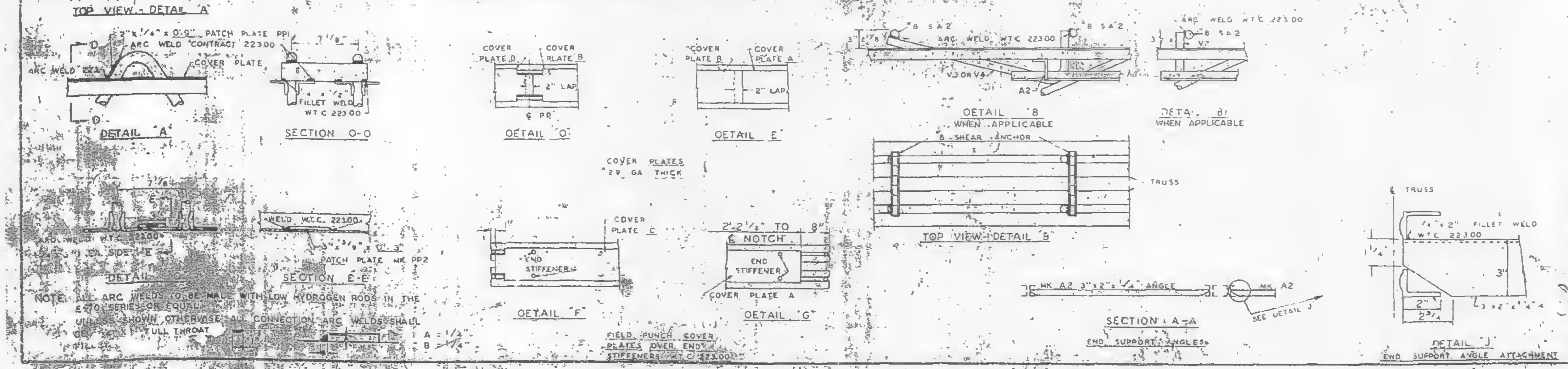
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.



NUMBERS AND LETTERS IN ELLIPSES ie., ⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CO 201 OR CD 202.

NO.	DATE	REVISION	BY

REF DRWG
7-AB4 [illegible] 10-15-68
7-AB4 [illegible] 7-22-68
7-AB4 42 10-15-68
SA 124 1-6-69
7-AB3 44 1-6-69
7-AB1-24 1-6-69
7-AB[illegible] 7-22-68



NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.
A = 1/4"
B = 1/4"

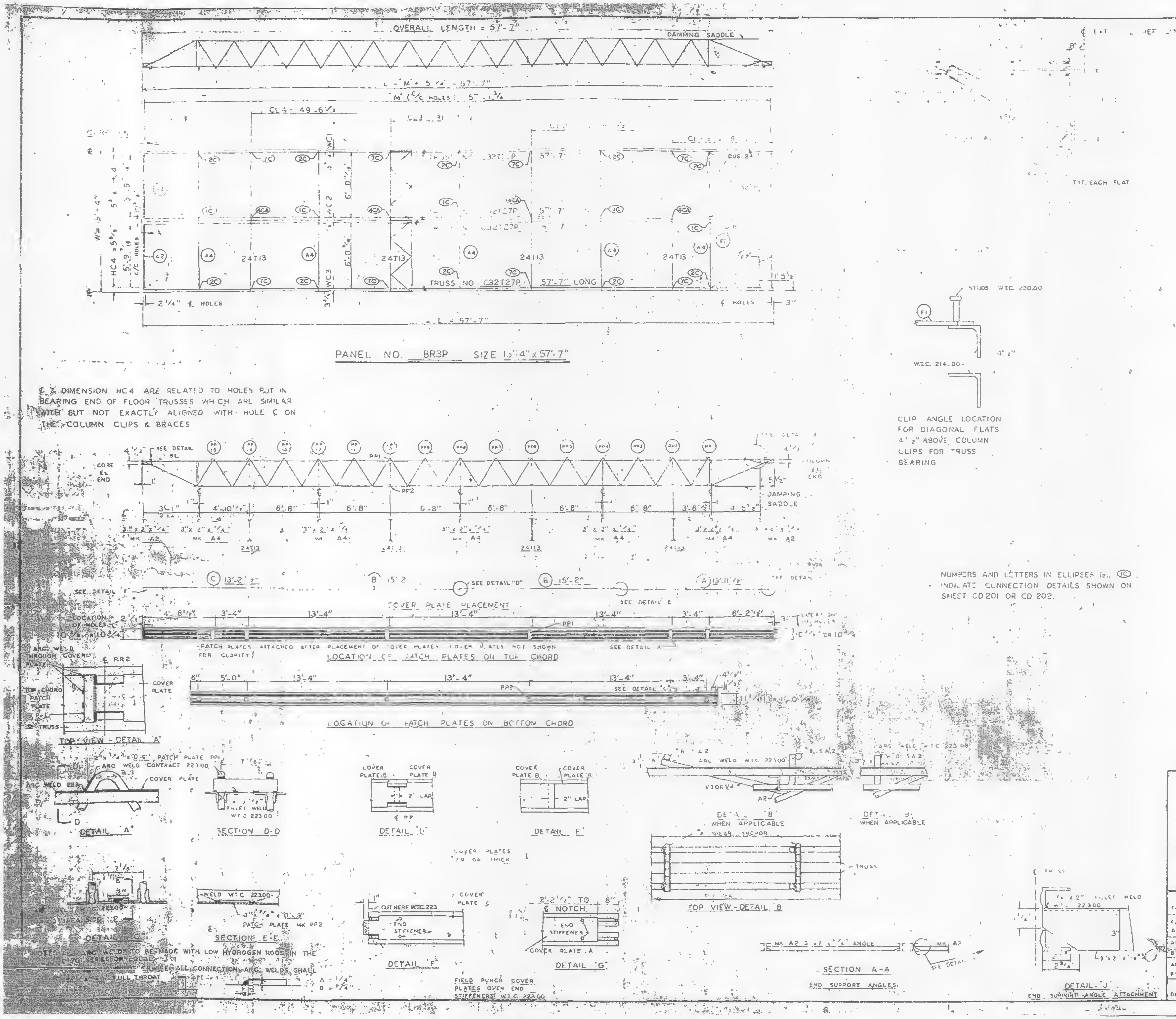
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER [illegible]
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 44 (EAST)

PANEL BR3N-13'-4" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-44	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE 7/31/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 28 1969	IN CHARGE OF PROD. DIV.
LACLEDE STEEL CO. DETAILED [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET FP BR3N



PANEL NO. BR3P SIZE 13'-4" x 57'-7"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES i.e. ⓘⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL.

[illegible] OTHERWISE ALL CONNECTION ARC WELDS SHALL [illegible] FULL THROAT

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS	SIZE	
[illegible]	[illegible]	4	C32T27P [illegible]	ST [illegible]
[illegible]	[illegible]	[illegible]	24T13 [illegible]	ST [illegible]
[illegible] PLATES	B	4	9" x 0135" x 15'-2"	ST 303
	[illegible]	2	5 x 0135" x 13'-2½"	ST 303
[illegible]	[illegible]	12	2" x 1½" x ¼" x 0'-6"	ST 400
[illegible] SHEAR ANCHOR	[illegible] 2	8	#8 REBAR x 0'-9"	ST 400
[illegible]	[illegible]	[illegible]	[illegible] x ⅜" x 1'-3⅞"	ST 298
	[illegible]	2	3½ x 3½ x ⅜ x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-0"	ST 400
	P3	4	4½" x .30" x 1'-[illegible]	ST 400

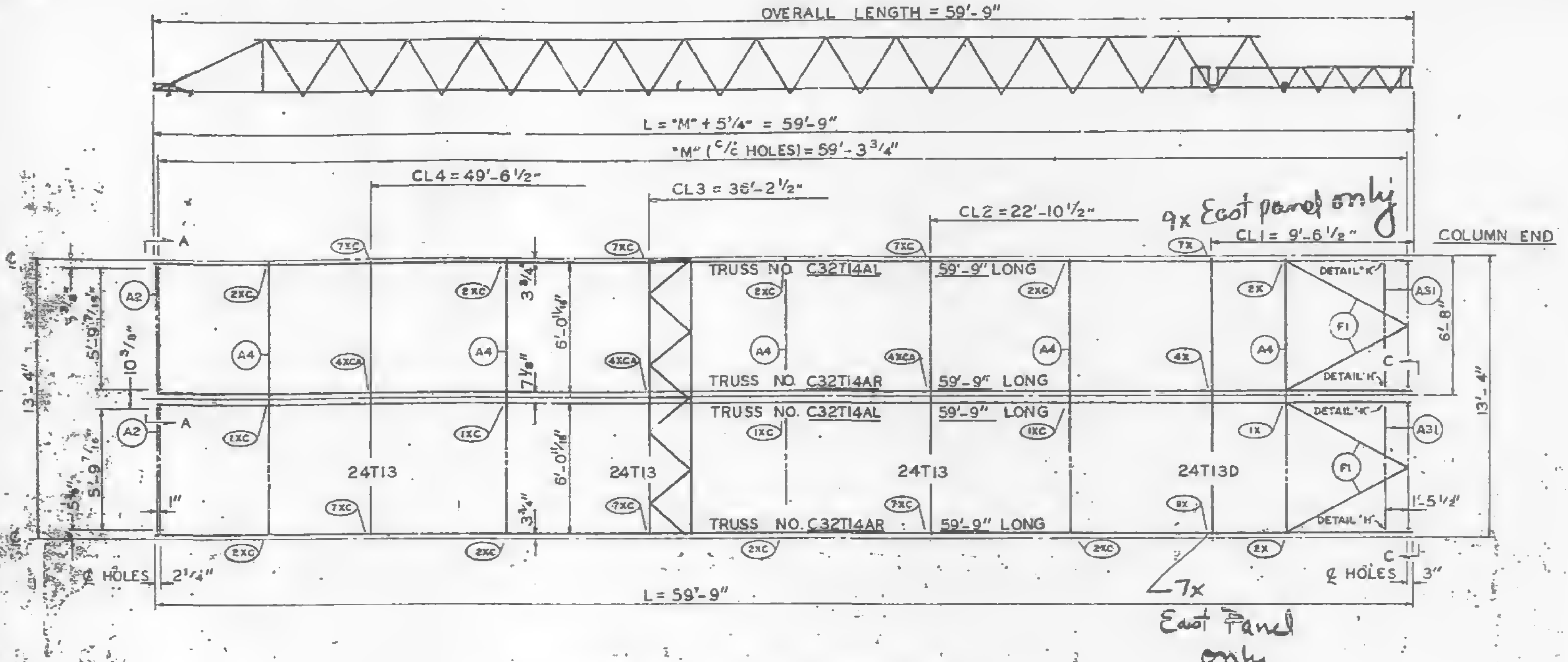
NO	DATE	REVISION	B

REF. DRWGS
[illegible] 10-15-68
[illegible] 5 & 6 7-22-68
7-A54-42 10-15-68
[illegible] 1-6-69
7-A53-44 1-6-69
[illegible] 24 1-6-69
[illegible] 7-22-68

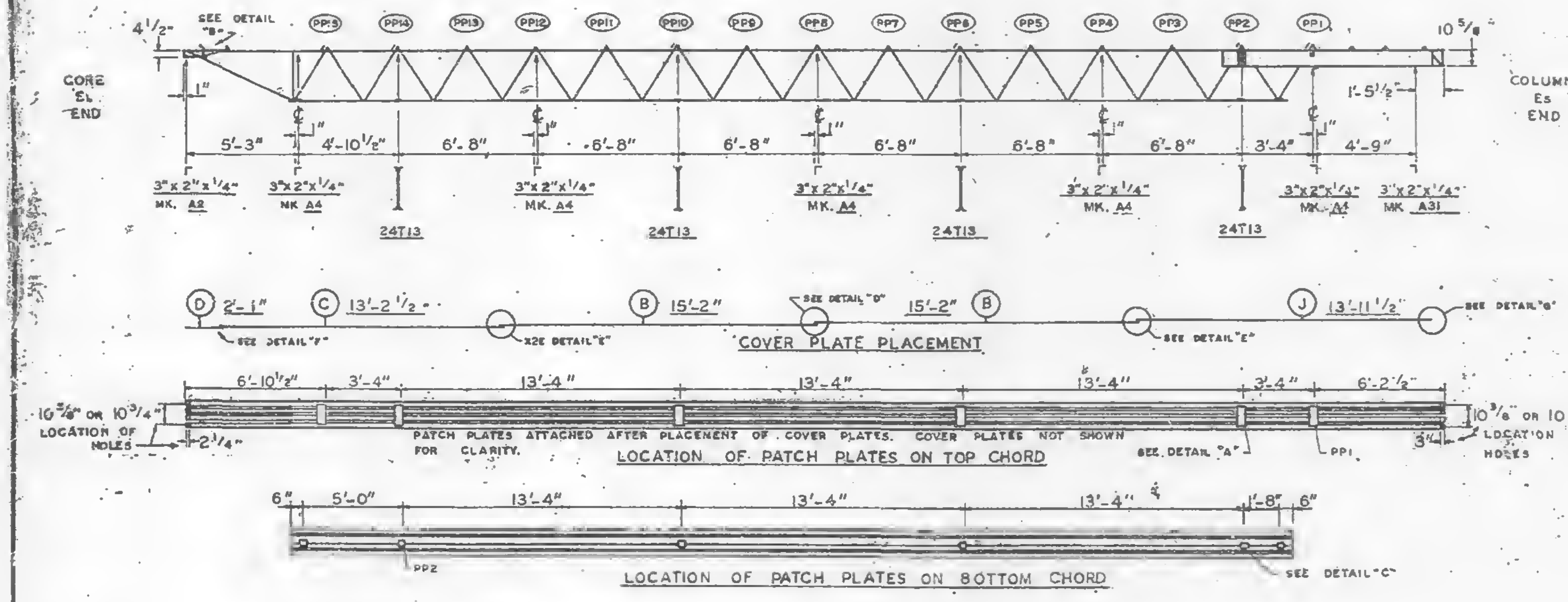
FLOOR PANEL DETAILS
[illegible]
WORLD TRADE CENTER [illegible]
FOR
THE PORT OF NEW YORK AUTHORITY

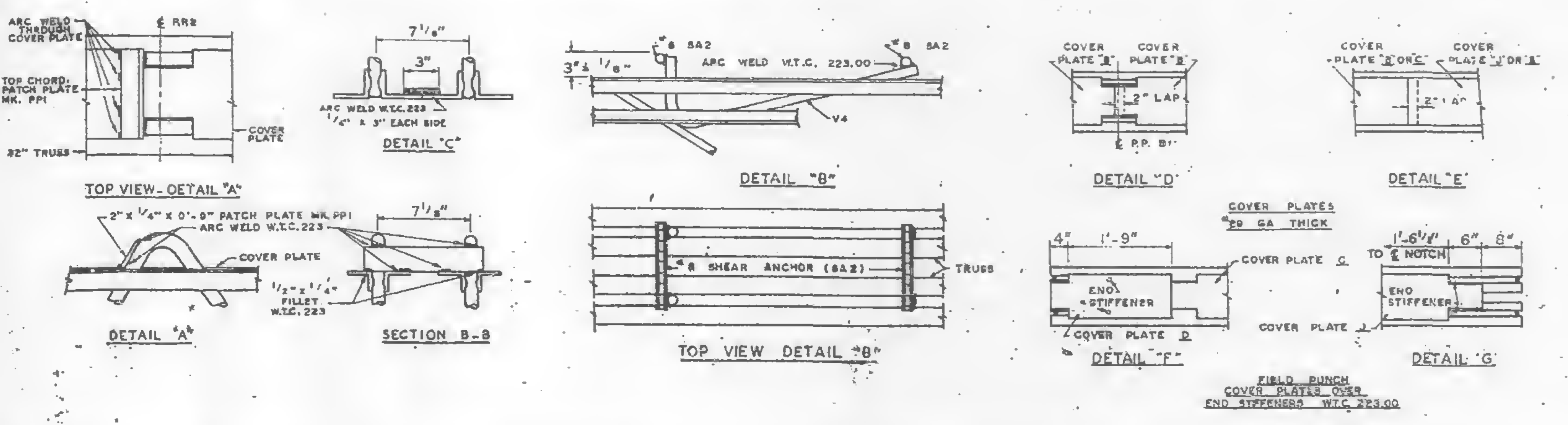
BLDG A FLOORS 78 (NORTH)
PANEL BR3P 13'-4" x 57'-7"
BLDG B FLOORS 78 (WEST)

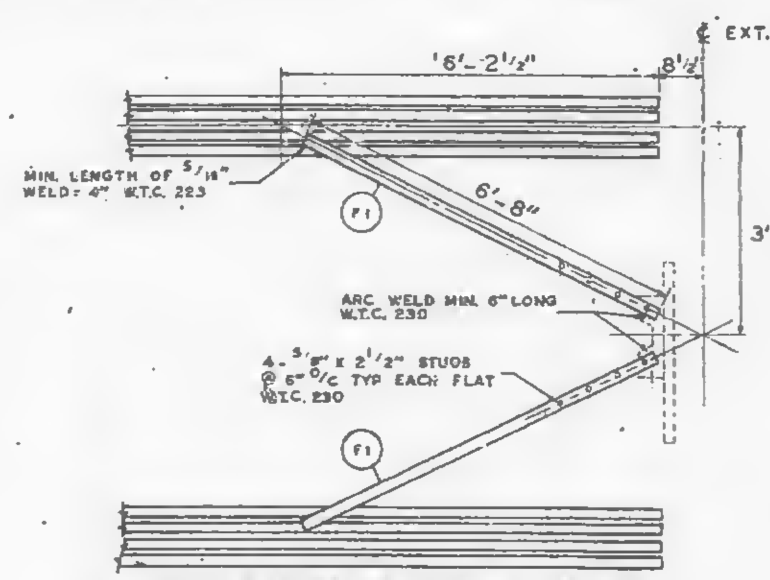
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-44
PLATE
APPROVED FOR FABRICATION BY James [illegible] FOR P.O.N.Y.A. DATE 7/3/69
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. M. CHURA DATE APRIL 28, 1969
IN CHARGE OF [illegible]
DETAILED BY A. C. WEBER
LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET FP B[illegible]



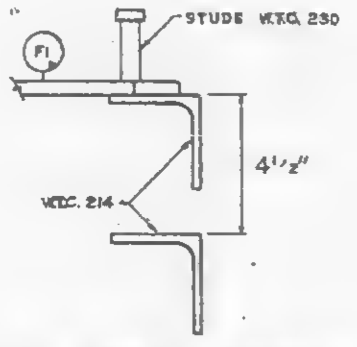
PANEL NO. 87A SIZE 13'-4" x 59'-9"


SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
CORE ℄ END
COLUMN ℄ END
5'-3"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
24T13
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
10 5/8" OR 10 3/4" LOCATION OF HOLES
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"




℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223
F1
6'-8"
3'-4"
ARC WELD MIN. 6" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.



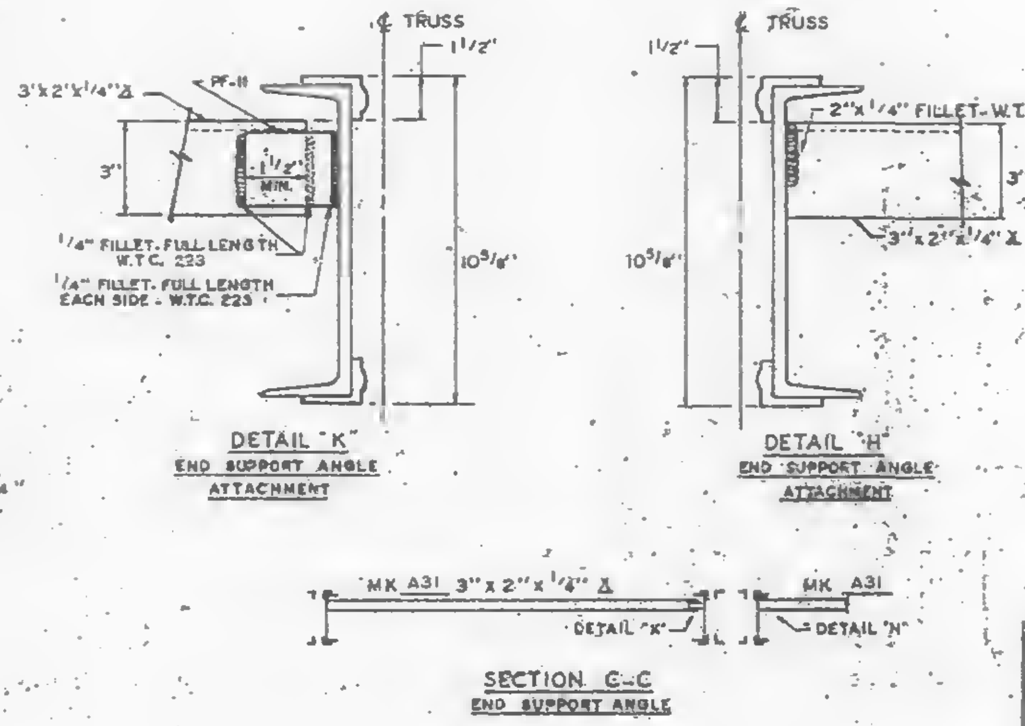
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

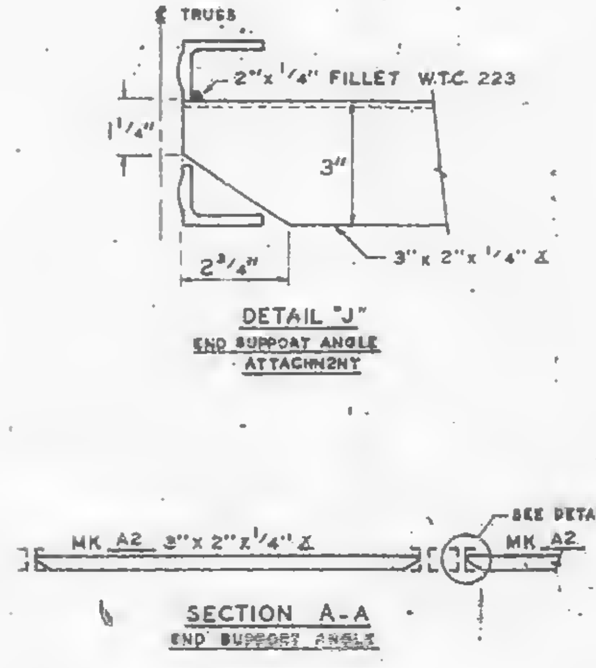
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	ST 213
	T13D	1	24T13D x 13'-3"	ST 2130
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/3"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25" x 8"	ST 400
#8 SHEAR ANCHOR	SA2	-	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	3 *4	4 1/2"x .39"x 0'-9"	ST 400
	P3	3 *4	4 1/2"x .39"x 1'-0"	ST 400
	P8	4	3"x 1/2"x 1'-2"	ST 40[illegible]
	P10	1 *	4 1/2"x .39"x 0'-5"	ST 4[illegible]
	P11	1 *	3" x 1/4" x 0'-6"	ST 40[illegible]

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

A = 1/2"
B = 1/2"

Material marked * is for West panel only


℄ TRUSS
1 1/2"
3"x2"x1/4" ∠
PF-11
1 1/2" MIN.
1/4" FILLET - FULL LENGTH W.T.C. 223
1/4" FILLET - FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT
2"x 1/4" FILLET - W.T.C. 223
3"x2"x1/4" ∠
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT
MK A31 3" x 2" x 1/4" ∠
DETAIL "K"
MK A31
DETAIL "H"
SECTION C-C
END SUPPORT ANGLE



NO.	DATE	REVISION	BY
⚠1	5-12-69	AS NOTED	G.D.

SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED, AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 6/6/69 By SK

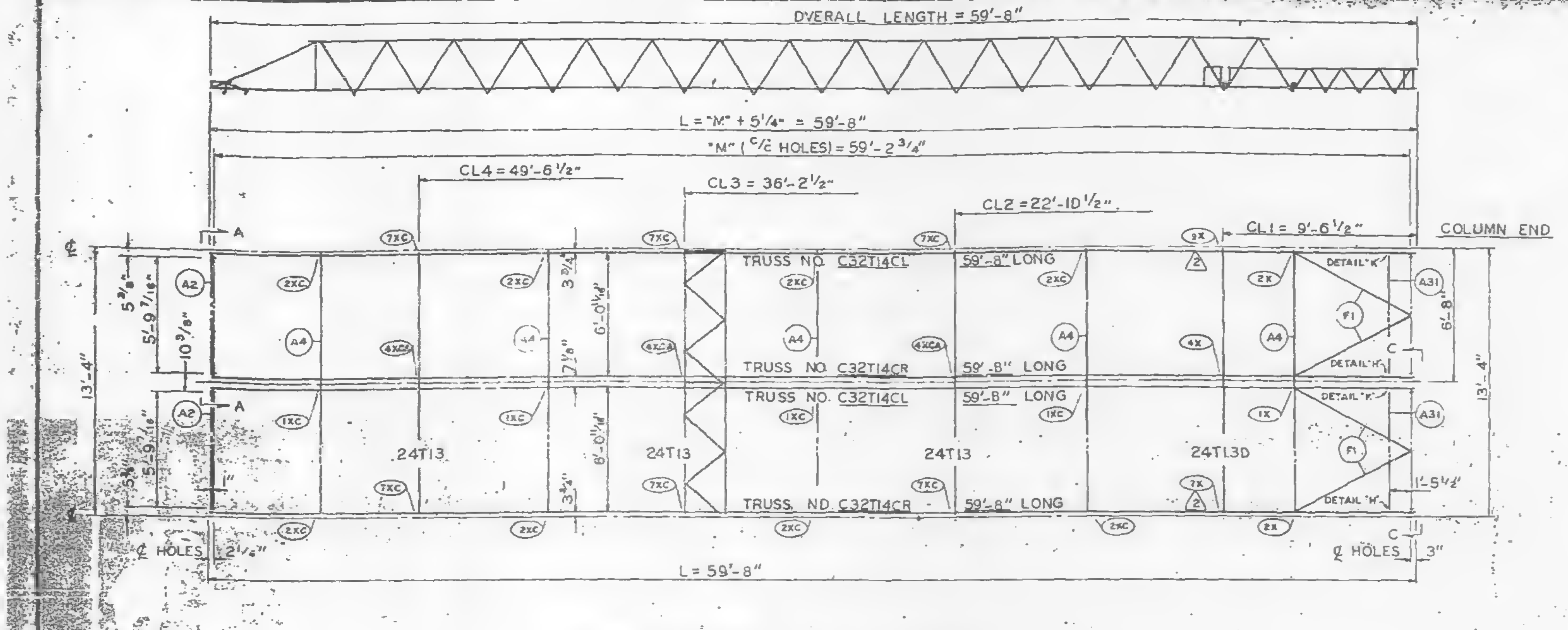
REF DRWG.		
	7-A83-26	10-4-68
	7-A81-13	10-4-68
	7-A82-8	7-22-68
	7-A84-28	7-22-68
	58-124	3-24-69
	7-A83-24	8-13-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

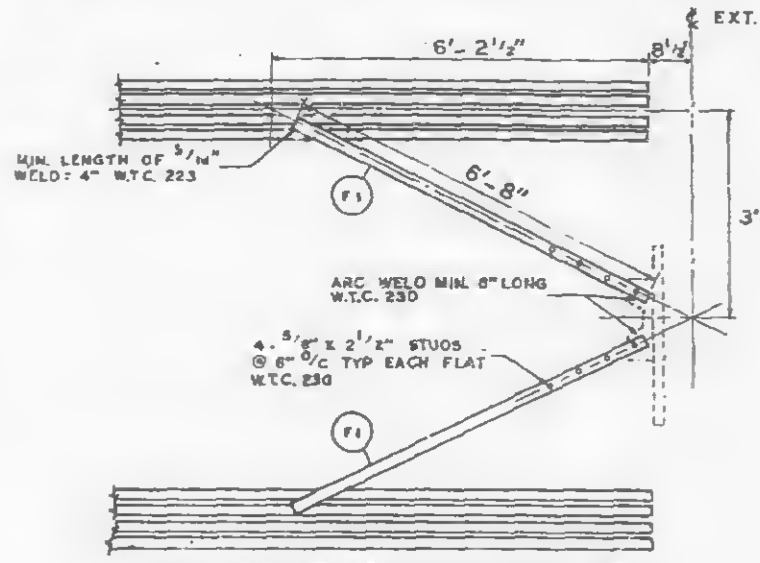
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

PANEL 87A - 13'-4" x 59'-9"

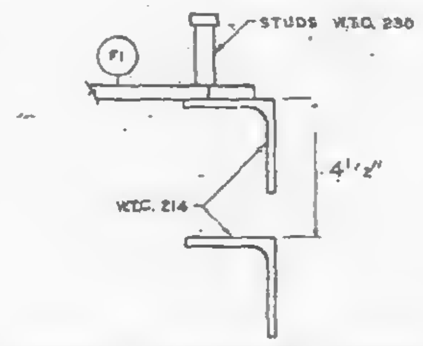
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-26
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY
DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [redacted] FOR FABRICATOR DATE
CHECKED BY T.N. CHURA
DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WATER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP 87A



PANEL NO. B7C SIZE 13'-4" x 59'-8"


℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
F1

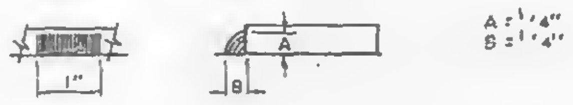
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

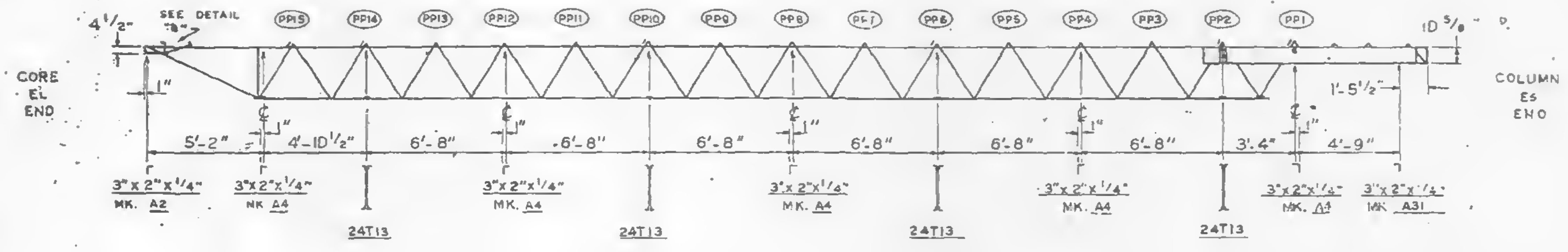


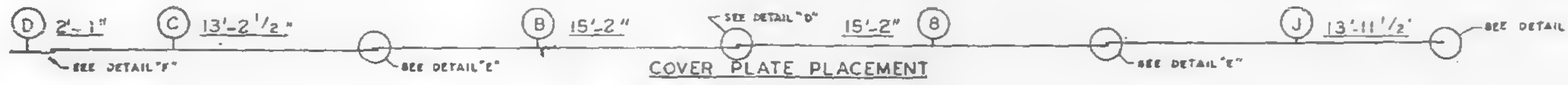
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T130	1	24T130 x 13'-3"	BT 2130
3"x 2"x 1/4" ANGLE	A2	2	3"x 2"x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3"x2"x 1/4" x 13'-3"	ST 403
	A31	2	3"x 2"x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	8"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES △2	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409

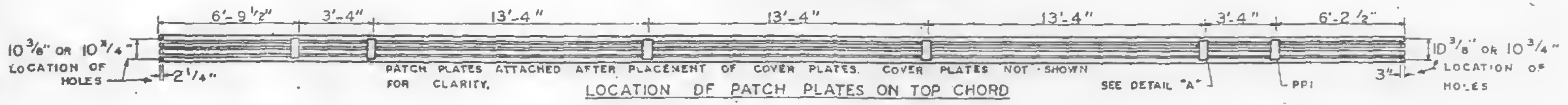
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.





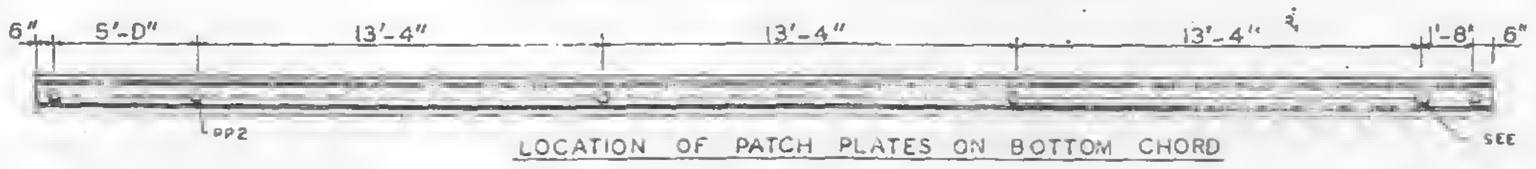


COVER PLATE PLACEMENT

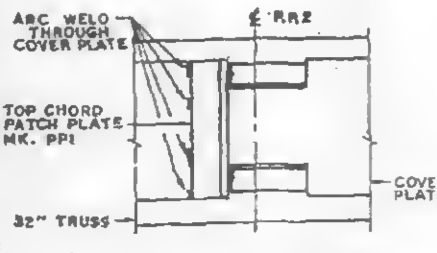

6'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES
2 1/4"
10 3/8" OR 10 3/4" LOCATION OF HOLES
3"
SEE DETAIL "A"
PP1

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

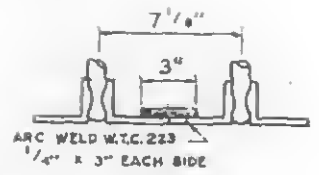
LOCATION OF PATCH PLATES ON TOP CHORD



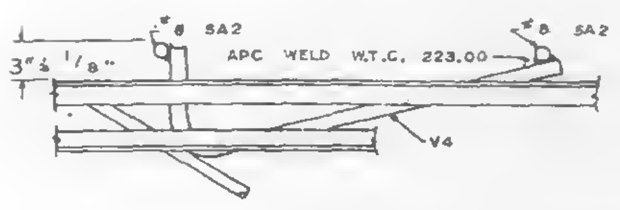
LOCATION OF PATCH PLATES ON BOTTOM CHORD



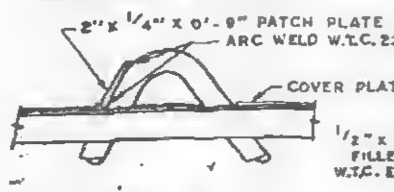
TOP VIEW - DETAIL "A"



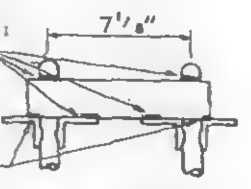
DETAIL "C"



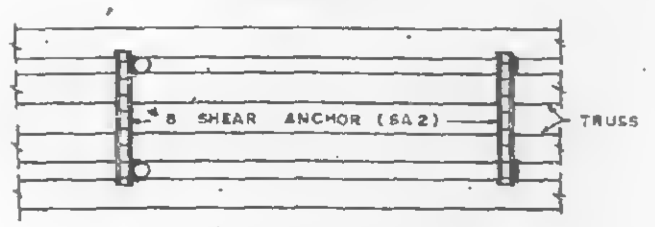
DETAIL "B"



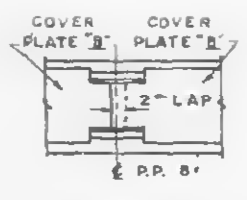
DETAIL "A"



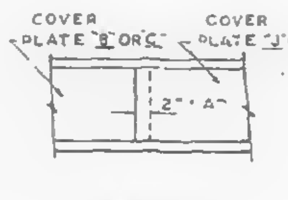
SECTION B-B



TOP VIEW DETAIL "B"

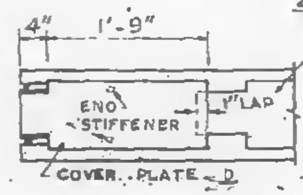


DETAIL "D"

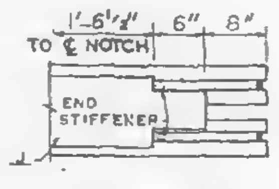


DETAIL "E"

COVER PLATES #29 GA THICK

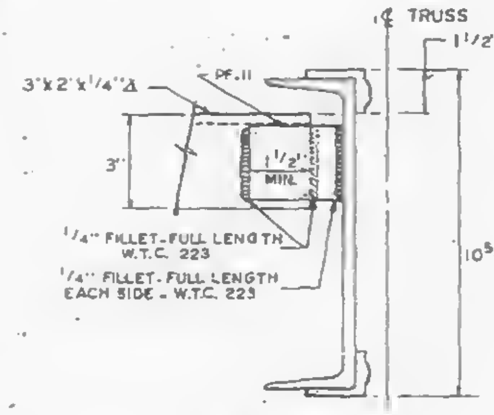


DETAIL "F"

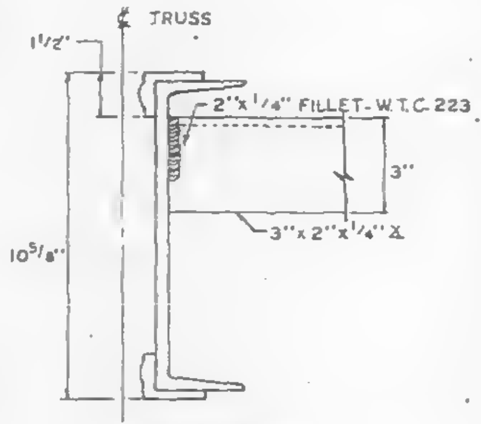


DETAIL "G"

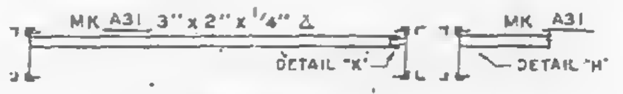
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00


℄ TRUSS
1 1/2"
3"x 2"x 1/4" ∠
PF.11
3"
1 1/2" MIN.
1/4" FILLET - FULL LENGTH W.T.C. 223
1/4" FILLET - FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"

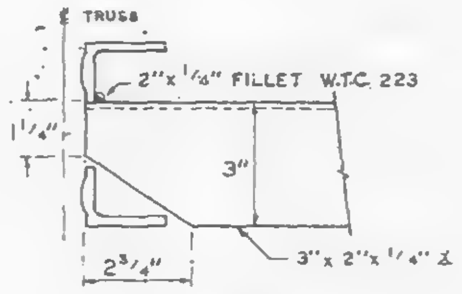
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT



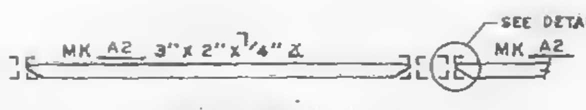
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT



SECTION C-C
END SUPPORT ANGLE



DETAIL "J"
END SUPPORT ANGLE ATTACHMENT



SECTION A-A
END SUPPORT ANGLE

NO.	DATE	REVISION	BY
△2	6-16-69	AS NOTED	G.D.
1	5-12-69	AS NOTED	G.D.

REF. DRWG.		
	7-A83-26	10-4-68
	7-A81-13	10-4-68
	7-A82-8	7-22-68
	7-A84-28	7-22-68
	SB-124	3-24-69
	7-A83-24	8-15-68

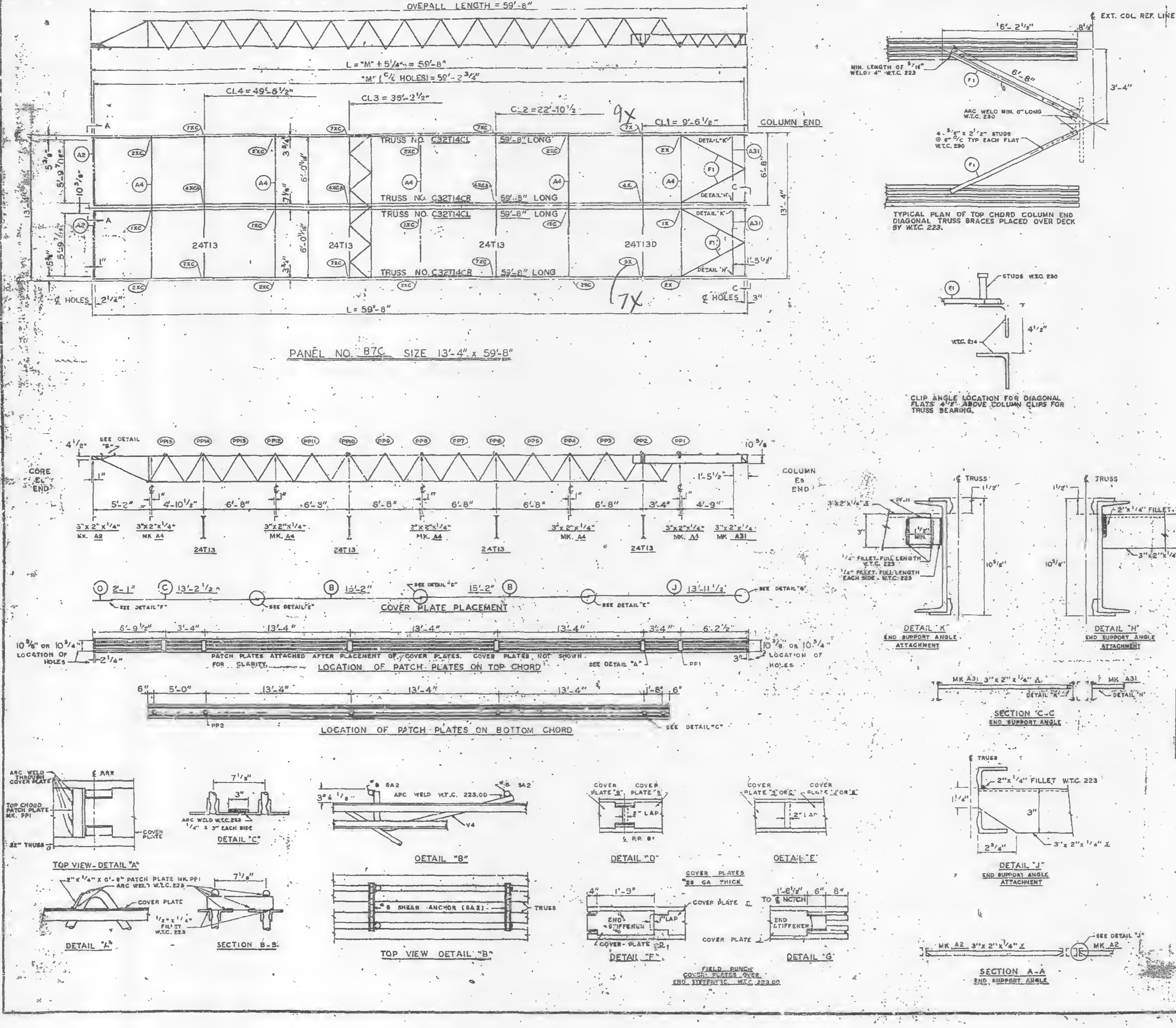
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 59 & 92 (EAST)

PANEL B7C - 13'-4" x 59'-8"

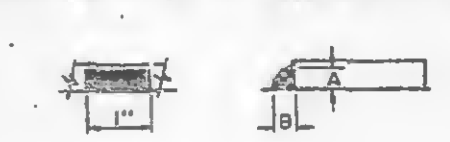
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-A83-26	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE 7/28/69	DRAWN BY luh DATE MAY 8, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE MAY 8, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT NO W.T.C. 221	SHEET NO FP B7C



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	ST 213
	T130	1	24T130 x 13'-3"	ST 2130
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25"x 8"	ST 409
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x 3/8"x 0'-8 1/2"	ST 400
	P2	3	4 1/2"x .39"x 0'-9"	ST 400
	P3	3	4 1/2"x .39"x 1'-0"	ST 400
	P8	4	3"x 1/2"x 1'-2"	ST 409
⚠1	P10	1	4 1/2"x .39"x 0'-5"	ST 409
	P11	1	3"x 1/4"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



A = 1/4"
B = 1/4"

1	5-12-69	AS NOTED	G.D.
NO.	DATE	REVISION	BY

SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 6/6/69 By SK

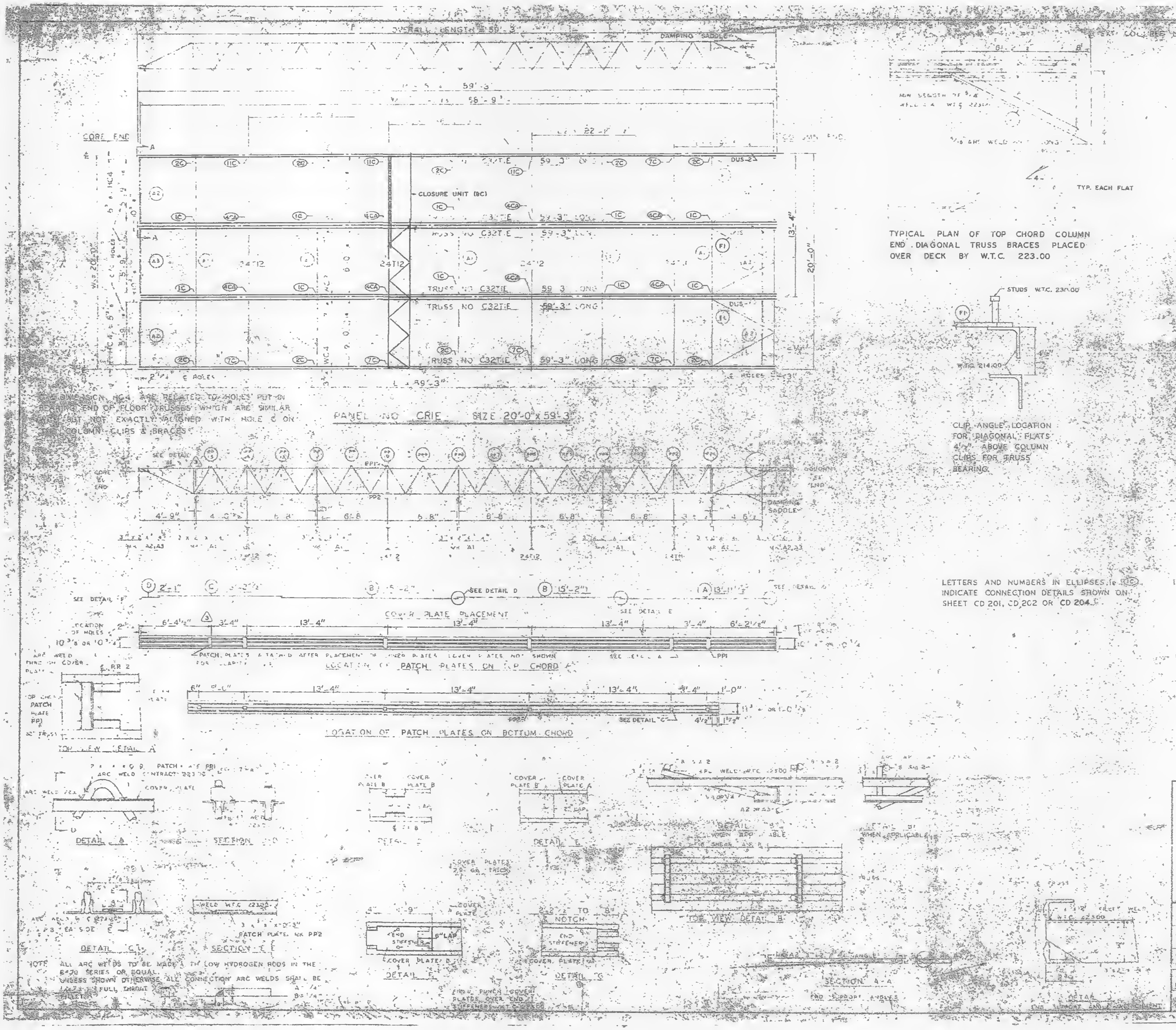
REF DRWG.	
7-AB3-20	10-4-68
-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-2	7-22-68
30-124	3-24-69
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 59 & 92 (EAST)

PANEL B7C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT: MADISON - ILLINOIS
DESIGN DRAWING NO. 7-AB3-26
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY
DATE MAY 8, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURAS
DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B7C
DETAILED



DIMENSION HC4 ARE RELATED TO HOLES PUT ON ... END OF FLOOR TRUSSES WHICH ARE SIMILAR ... BUT NOT EXACTLY ALIGNED WITH HOLE C ON ... COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END. DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLETS.

REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible] E	[illegible]	[illegible] E 59'-3	[illegible] E
BRIDGING TRUSSES	[illegible]		24T [illegible]	
	T 2	3	[illegible]	BT 212
[illegible] ANGLE	A1	3	[illegible]	ST 403
	[illegible]	4	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
CLIPS PLATES	[illegible]	3	[illegible]	[illegible]
	B	6	[illegible]	[illegible]
	[illegible]	3	[illegible]	[illegible] 403
		3	[illegible] x 2'-1"	[illegible]
ANGLE CLIPS		21	[illegible]	ST 400
2 B SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-0"	ST 400
DAMPING SADDLE	DUS	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS 2	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8	ST 298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2" x 1 1/4" x .230 x 6'-8 1/2"	BT 212 CD 293
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	7	4 1/2" x .39" x 1'-0"	ST 400

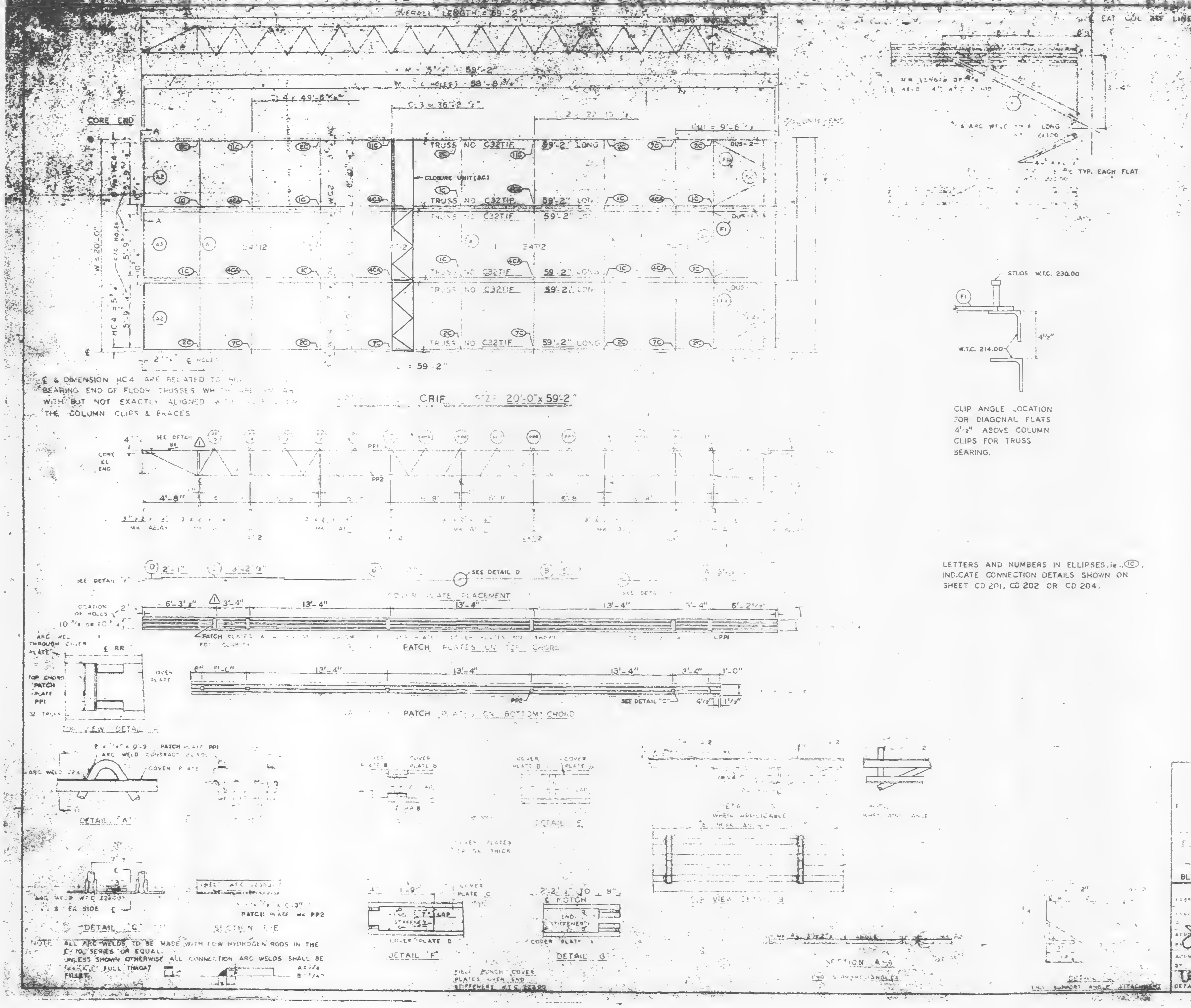
NO.	DATE	REVISION	BY
3	6-9-69	AS NOTED	G.D.C.
2	10-16-68	MAT'L LIST	G.D.C.
1	7-17-68	GENERAL	[illegible]

[illegible]	10-15-68
[illegible]	7-22-68
[illegible] 84-41	7-22-68
SA 24	1-6-69
[illegible] 483-7	[illegible]
[illegible] 4	7-22-68
7-402 6 & 7	7-22-68
7-384-42	10-15-68

FLOOR PANEL DETAILS
[illegible] N.Y.C.
THE PORT OF NEW YORK AUTHORITY
10-11 (SOUTH)
PANEL CRIE [illegible] 3

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White DATE 1 2 70	DESIGN DRAWING NO. 7-383-8 4-1-68 PLATE
	DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY J.R. PAUL DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.	
FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-CRIE



℄ & DIMENSION HC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES WHICH ARE ... WITH BUT NOT EXACTLY ALIGNED WITH ... THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET. A = 1/4 B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T1	6	C32TIF + 59'-2"	ST201F
BRIDGING TRUSSES	T1	1	24T11 - 19'-11"	BT211
	T2	3	24T12 - 19'-11"	BT212
3 x 2" x 1/4" ANGLE	A1	5	3 x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3 x 2" x 1/4" x 5'-11 9/16	ST 403
	A3	2	3" x 2" x 1/4" x 5'-[illegible] 3/4	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x [illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0'-3"	ST 400
	PP2	8	[illegible]	ST 400
[illegible]	[illegible]	3	[illegible] .15" x 13'-[illegible]	ST 303
	[illegible]	6	[illegible] .35" x 5'-2"	ST 303
	C	3	[illegible] x .0135" x [illegible] 2 1/2	ST 303
	[illegible]	3	[illegible] .035" x 2'-1"	ST 303
ANGLE CLIPS	[illegible]	21	2" x 1 1/2" x 1/4" [illegible] 0-5	ST 400
[illegible] SHEAR ANCHOR	S	9	[illegible] REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS [illegible]	[illegible]	[illegible] x 3" x [illegible] x 3/8" x 3' 6 7/8"	ST 298
	[illegible]	[illegible]	[illegible] 3 1/2" x [illegible] x 3' 6 7/8	ST 298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-[illegible]	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2" x 1 1/4" x .230 x 6'-6 1/2"	BT 212 CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.D.C.

10-15-68
15,16 & 39 7-22-68
7-22-68
1-6-69
7-22
7-22
184 42 10-15-68

47-48 (S) 47-48, 70-71 (N)

CRIF [illegible] x 59'-2"

BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY

MADISON ILLINOIS

APPROVED FOR FABRICATION James White DATE 1/2/70

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

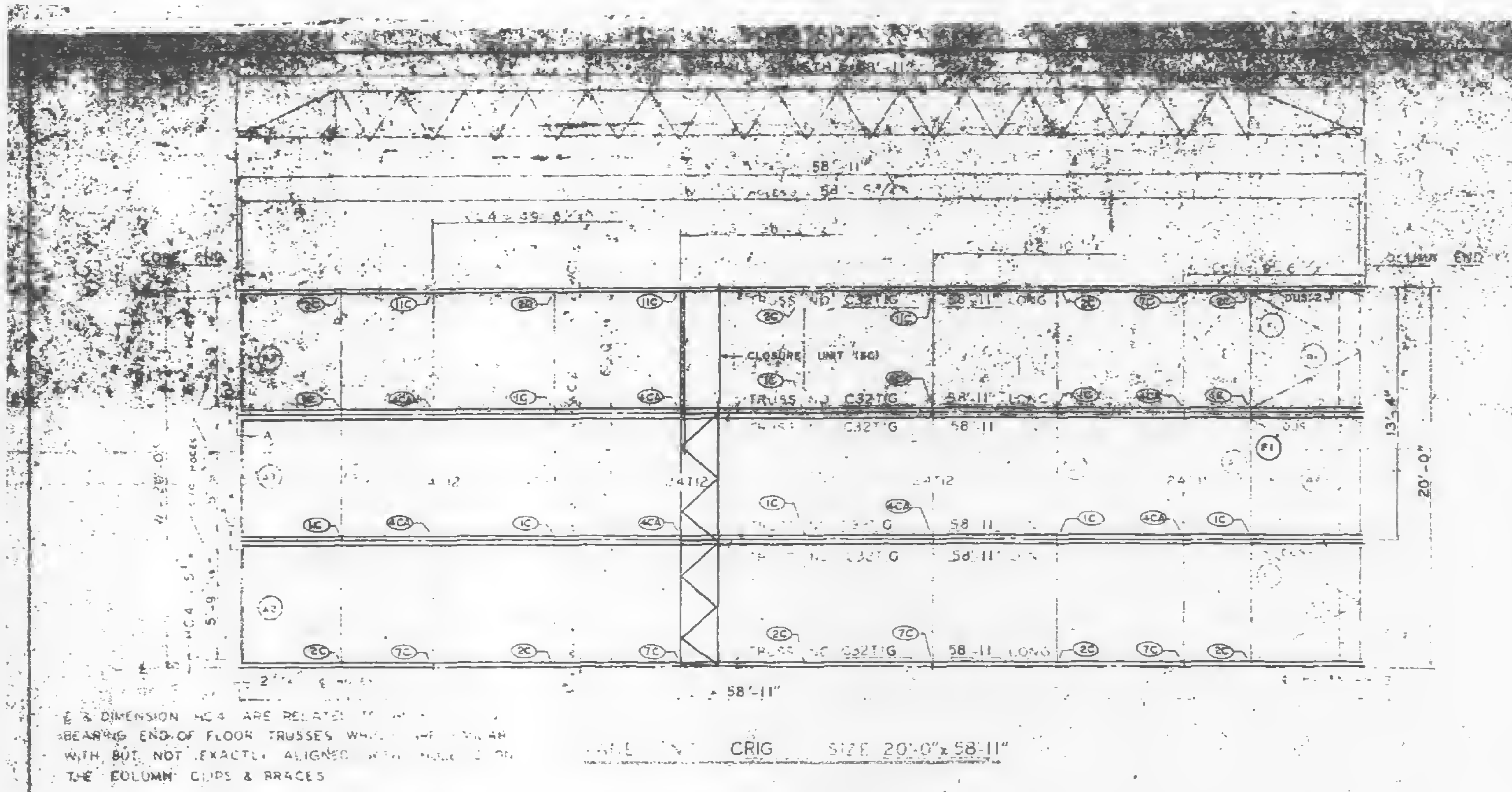
DESIGN DRAWING NO 7 483 8 PLATE

DRAWN BY DATE OCT 23, 1968

CHECKED BY T.M.CHURA DATE OCT. 23, 1968 IN CHARGE OF PROD. DEV

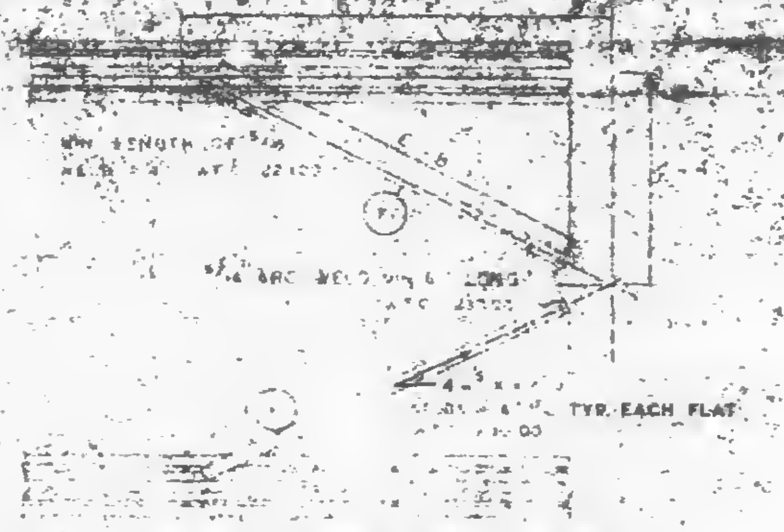
FABRICATION CONT. NO. 221 SHEET NO CRIF

DETAILED BY

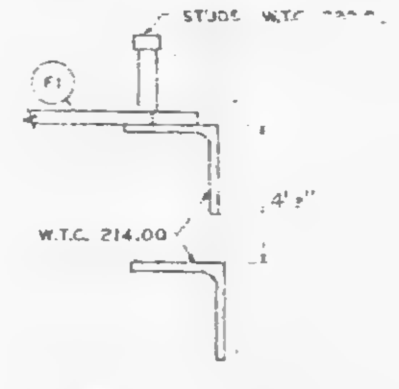


E & DIMENSION HC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES WHICH ARE ... WITH, BUT NOT EXACTLY ALIGNED WITH ... THE COLUMN CLIPS & BRACES

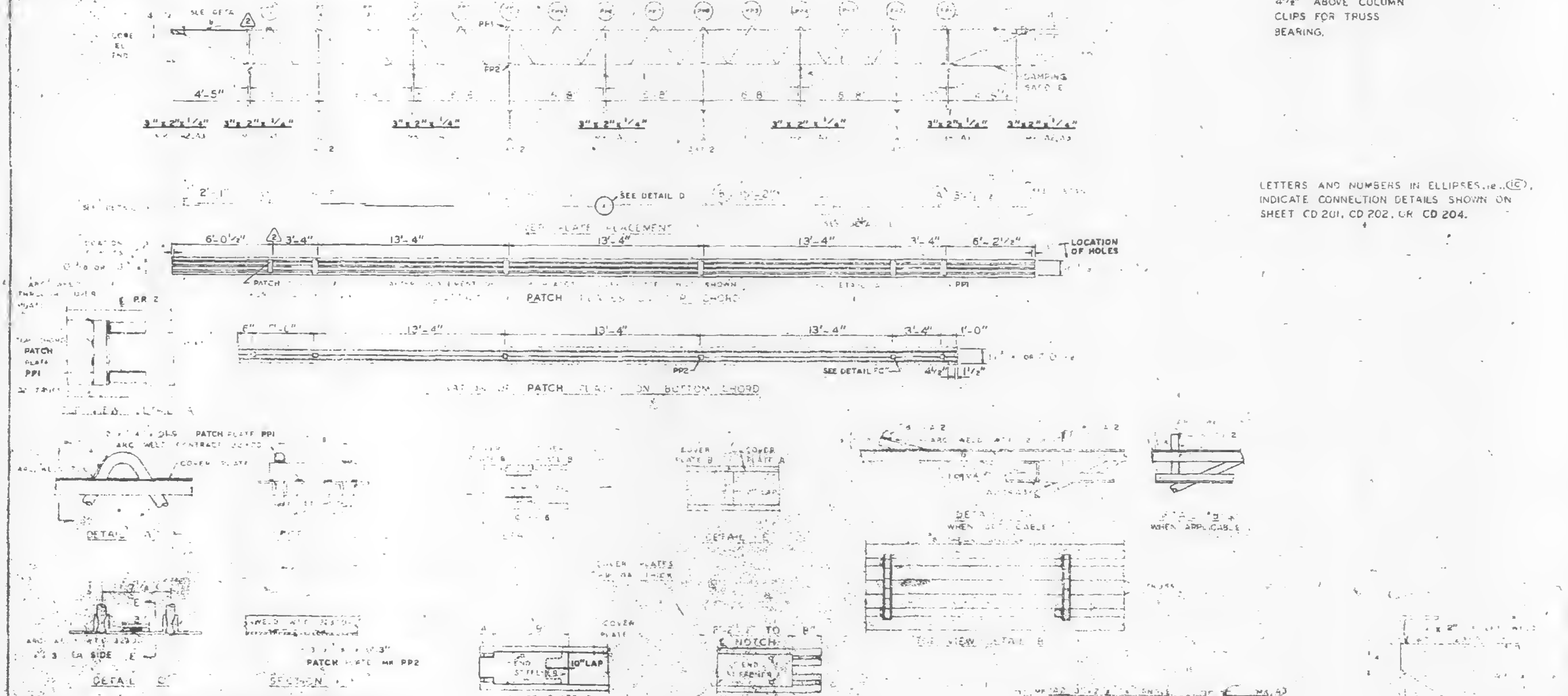
PLAN OF CRIG SIZE 20'-0" x 58'-11"



TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00.



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.



SECTION A-A
END SUPPORT ANGLES

NOTE: ALL ARC-WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

LETTERS AND NUMBERS IN ELLIPSES, ie.,(1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.

MATERIAL	MARK	NO. REQ.	SIZE	REF. DRWG.
FLOOR TRUSSES	1G	4	C32TIG - 58'-11"	ST 201G
BRIDGING TRUSSES	T11	3	24T11 - 19'-11"	ST 211
	T12	3	24T12 - 19'-11"	ST 212
ANGLE	A1	8	3"x2"x1/4" x 10-11"	ST 403
	A2	4	3"x2"x1/4" x 5-11"	ST 403
	A3	2	3"x2"x1/4" x 2-1"	ST 403
DIAGONAL FLATS	F1	6	[illegible] x 6-8	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 3'-9"	ST 400
	PP2	18	3 x [illegible] x 0'-3"	ST 400
[illegible]		3	[illegible]	ST 403
		6	[illegible]	[illegible]
		4	[illegible]	ST 403
		3	[illegible] 2'-1"	ST 403
ANGLE [illegible]		21	[illegible]	ST 400
[illegible]	SA2	3	[illegible] 0'-8"	ST 400
[illegible] ANGLE	[illegible]	2	[illegible] 6 7/8"	[illegible]
	[illegible]		[illegible] 6 7/8"	[illegible]
CONNECTION BAR	C61	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] x 1 1/2" x [illegible] 230 x 6'-0 1/2"	[illegible] CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	1	4 1/2" x .38" x 1'-0"	ST 400

NO	DATE	REVISION	BY
2	6-9-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.

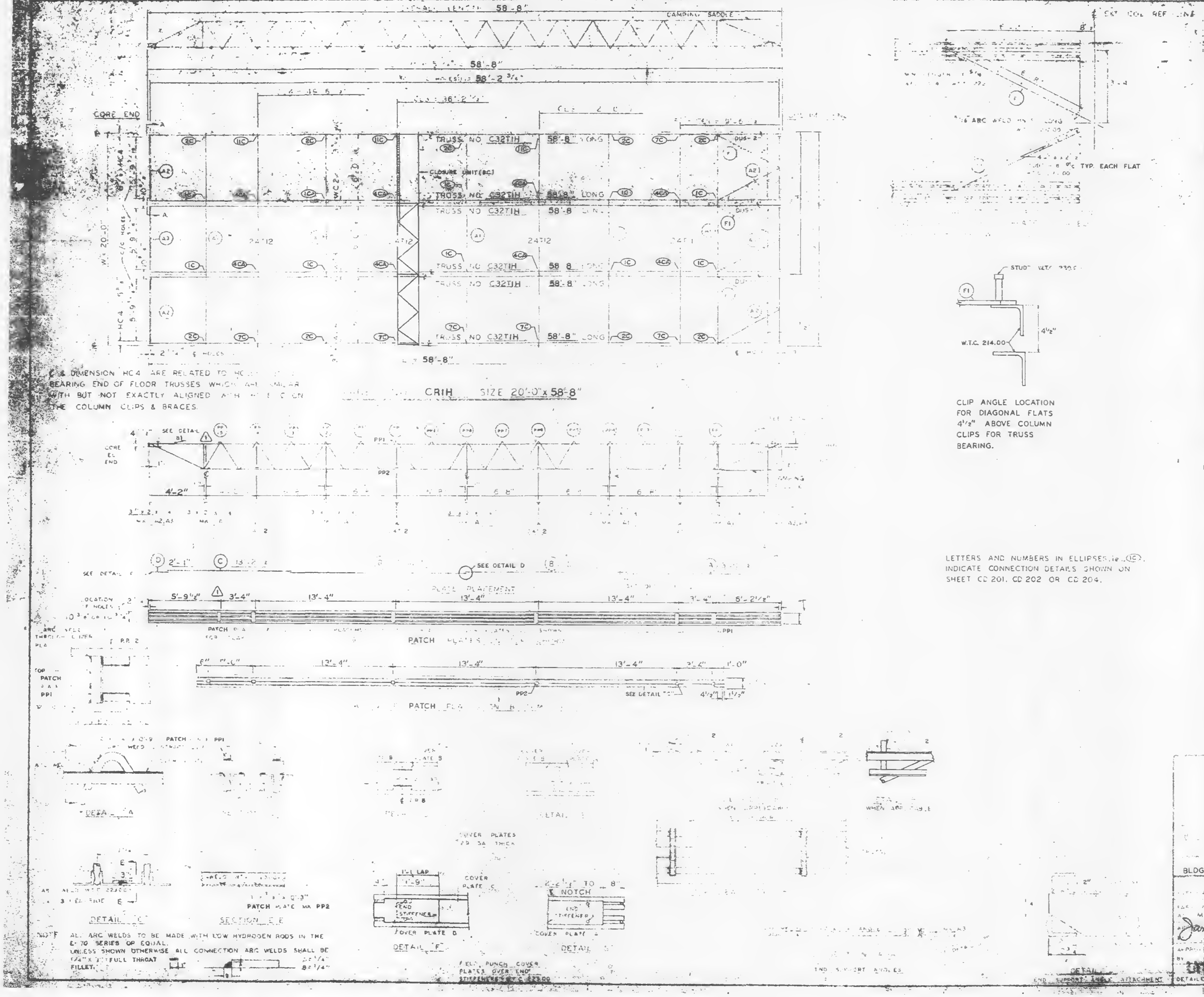
2

10-15-66
7-22-68
7-22-68
1-6-69
7-22-68
7-22-66
10-15-68

39 (NORTH & SOUTH) 40 (SOUTH) 10-11 (NORTH)
PANEL CRIG 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST) 2

FABRICATION BY: LACLEDE STEEL COMPANY

DESIGN DRAWING NO. 493 B
PLATE
James White 1/2/70
DRAWN BY: [illegible]
DATE APRIL 10, 1968
CHECKED BY J.R. PAUL
DATE APRIL 10, 1968
PROD. DEV.
[redacted]
FABRICATION CONT. NO. 221
SHEET NO. FP CRIG
DETAILED BY J.E. WEBER



℄ & DIMENSION HC4 ARE RELATED TO HO[illegible] BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH [illegible] ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x [illegible] FULL THROAT FILLET.

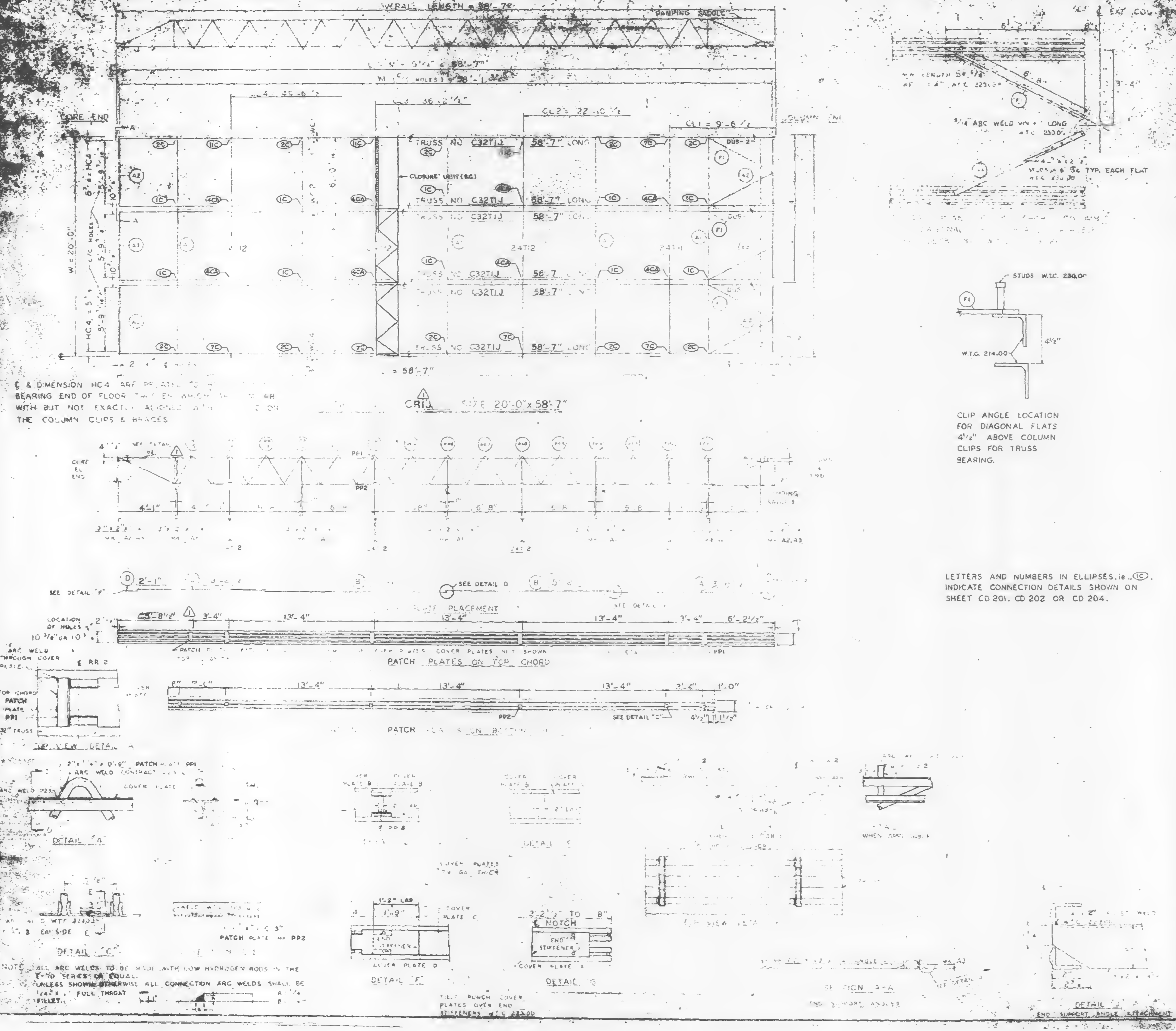
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	6	C32T1H - 58'-8"	ST201H
[illegible] TRUSSES	T11	1	24T [illegible]	BT211
	T12	3	24T12 - 19'-11"	BT212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
[illegible]	A	3	[illegible] x .135 x 13'-11 1/2"	ST 303
	B	6	[illegible] x 15'-2	ST 303
	C	3	[illegible] x .135" x 13'-2 1/2	ST 303
	D	3	[illegible] x .135 x 2'-1"	ST 303
ANGLE CLIP	[illegible]	21	[illegible] x 0'-6	ST 400
[illegible] SHEAR [illegible]	SA2	9	[illegible] x 0'-8"	ST 400
DAMPING SADDLE	[illegible]	2	[illegible] x 3 1/2 x 3/8 x 3'-6 7/8	ST 298
	[illegible]	[illegible]	[illegible] x 3/8 x 3'-6 7/8	ST 298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	24-1 1/2 x 1 1/4" x .230 x 6'-6 1/2"	BT 212 CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.D.C.

1 10-15-68
7-22-68
7-22-[illegible]
1-6-69
7-22-[illegible]
7-22-[illegible]
10-15-68

79-80 (N)
CRIH [illegible] x 58'-8"
BLDG. B FLOORS 79-80 (WEST) 1

[illegible] CREOSOTE STEEL COMPANY
[illegible] MADISON, ILLINOIS
James White 1/2/70
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
DETAILED BY A.S. WEBER
DESIGN DRAWING NO. [illegible] 8 PLATE
DRAWN BY [illegible] DATE OCT. 23, 1968
CHECKED BY T.M.CHURA DATE OCT. 23, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP CRIH



℄ & DIMENSION HC4 ARE RELATED TO THE BEARING END OF FLOOR THAT EN... WITH BUT NOT EXACTLY ALIGNED WITH ... ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie., Ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x ... FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PC	SIZE	REF. DRWG
FLOOR TRUSSES	T1J	6	C32T1J x 58'-7"	[illegible]
BRIDGING TRUSSES	J11	1	24T11 - 19'-11"	BT212
	T12	3	24T12 - 19'-11"	BT212
3" x 2" x 1/4" ANGLE	A1	8	3" x 2" x 1/4" x 19'-11"	ST 400
	A2	4	3" x 2" x 1/4" x 8'-11 3/4"	ST 402
	A3	2	3" x 2" x 1/4" x 3'-11 3/4"	ST 400
DIAGONAL FLATS	F1	8	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	9" x 0.135" x 13'-11 1/2"	ST303
	B	6	9" x 0.135" x 13'-2"	ST303
	C	3	9" x .0135" x 13'-2 1/2"	ST303
	D	3	9" x 0.135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE		2	4" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
		1	4" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-4 x 1 1/2" x 1 1/4" x	BT212
			230 x 6'-6 1/2"	CS 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-9-69	AS NOTED	G.O.C.

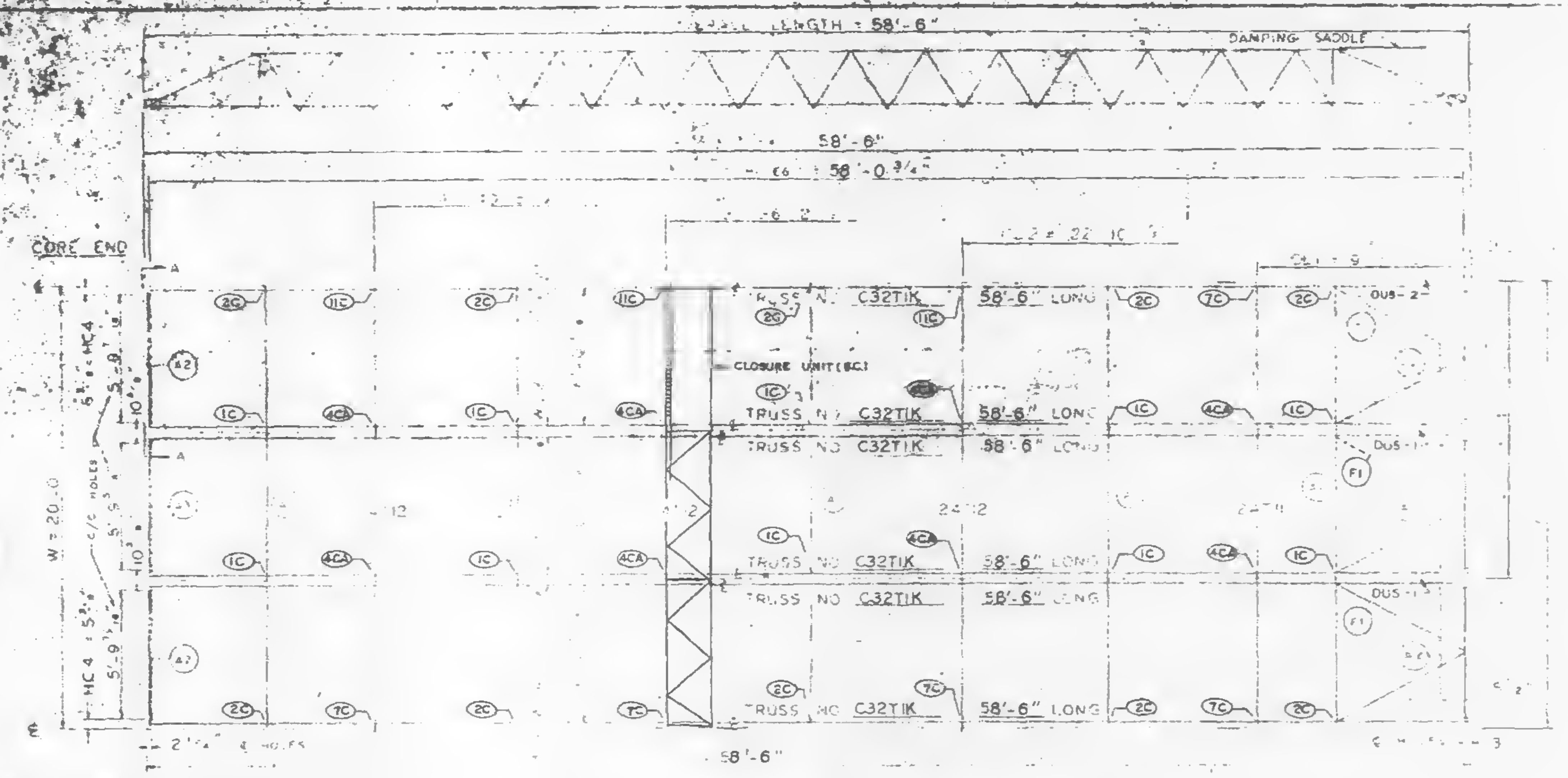
⚠1

[illegible]	10-15-69
ABS-SUC 239	7-22-68
ABS 41	7-22-68
[illegible]	1-6-69
[illegible]	1-3-68
[illegible]	7-22-65
[illegible]	7-22-65
ABS 42	10-15-68

FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

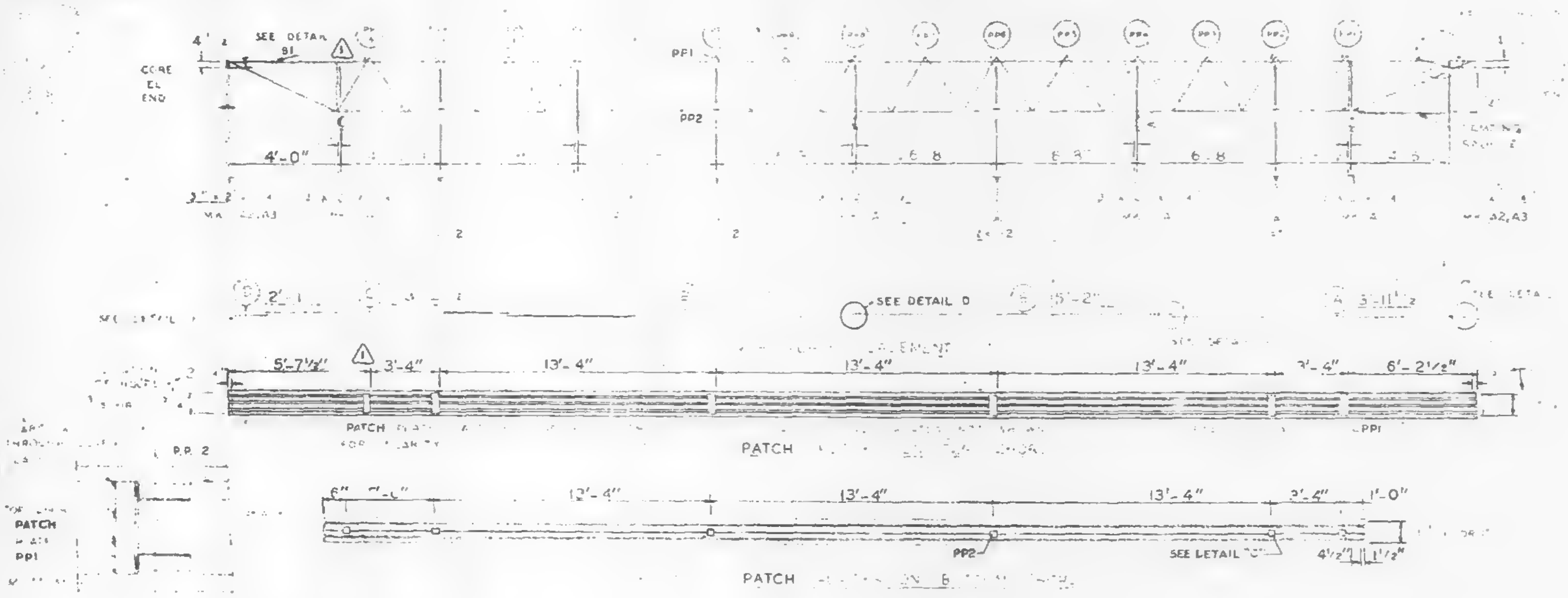
BLDG. FLOORS 40 (N)
PANEL CRIJ ... x 58'-7"
BLDG. B FLOORS 40 (WEST) ⚠1

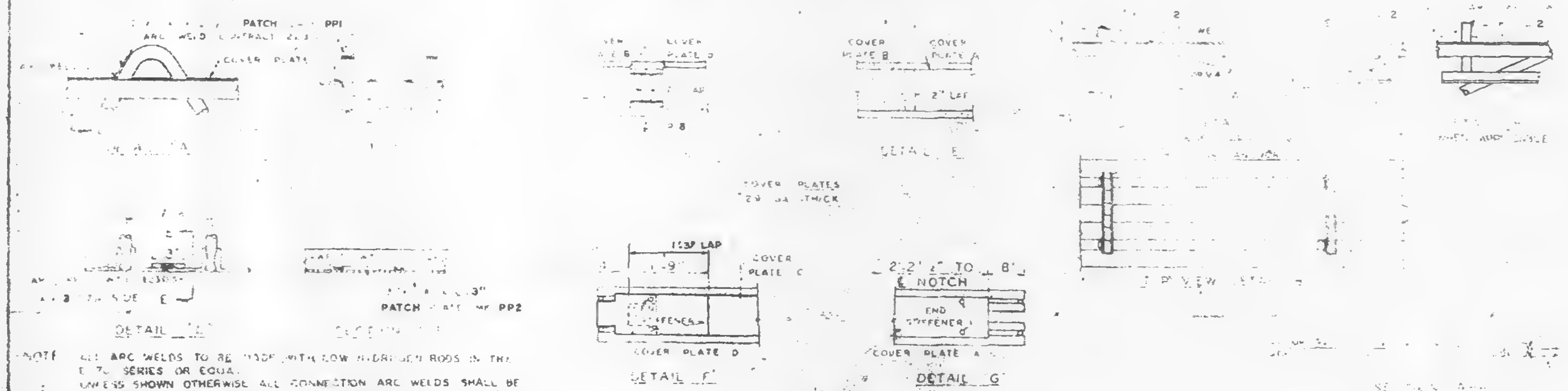
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-B	PLATE
APPROVED FOR ERECTION BY James White FOR PONYA	DATE 1/2/70	DRAWN BY ... DATE OCT 23, 1968	
APPROVED FOR FABRICATION BY ... FOR FABRICATOR	DATE	CHECKED BY T.M.CHURCH DATE OCT 23, 1968	IN CHARGE OF PROD.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221	



C.L. DIMENSION HC4 ARE RELATED TO [illegible] BEARING END OF FLOOR TRUSSES WHICH [illegible] WITH BUT NOT EXACTLY ALIGNED [illegible] THE COLUMN CLIPS & BRACES

CRIK SIZE 20'-0" x 58'-6"

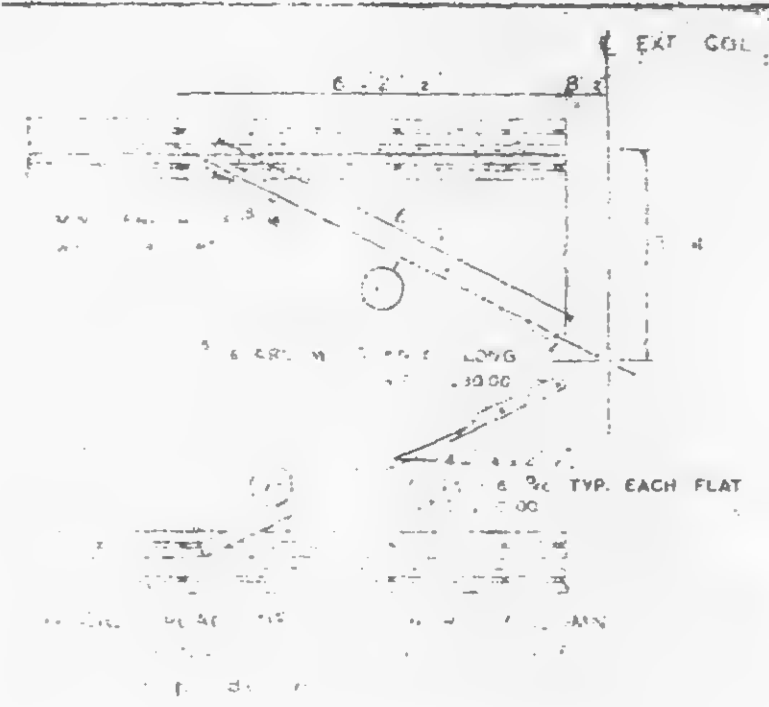


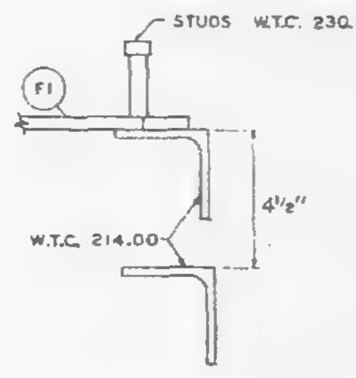


NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.
A = 1/4
B = 1/4

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 232.00

END SUPPORT ANGLE ATTACHMENT





CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1K	6	C32TIK - 58'-6"	ST201K
BRIDGING TRUSSES	[illegible]	1	24T[illegible] - 19'-11"	BT21[illegible]
	T12	3	24T12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 18'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 8'-8"	ST 402
PATCH PLATES	PP1	18	2"x 1/4"x 0'-9"	ST 400
	PP2	18	3"x 3/8"x 0'-3"	ST 400
[illegible]	A	3	[illegible] x 0.35" x 13'-11 1/2"	ST303
	B	6	9" x 0135" x 15'-2"	ST303
	C	3	9" x .0135" x 13'-2 1/2"	ST303
	D	3	[illegible] x 0.35" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x 1 1/2"x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x 3 1/2"x 3/8"x 5'-8 7/8"	ST298
	DUS 2	1	3 1/2"x 3 1/2"x 3/8"x 3'-8 7/8"	ST298
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-[illegible] 1 1/2"x 1 1/4"x	BT212
			.230 x 6'-6 1/2"	CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-3"	ST 400

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

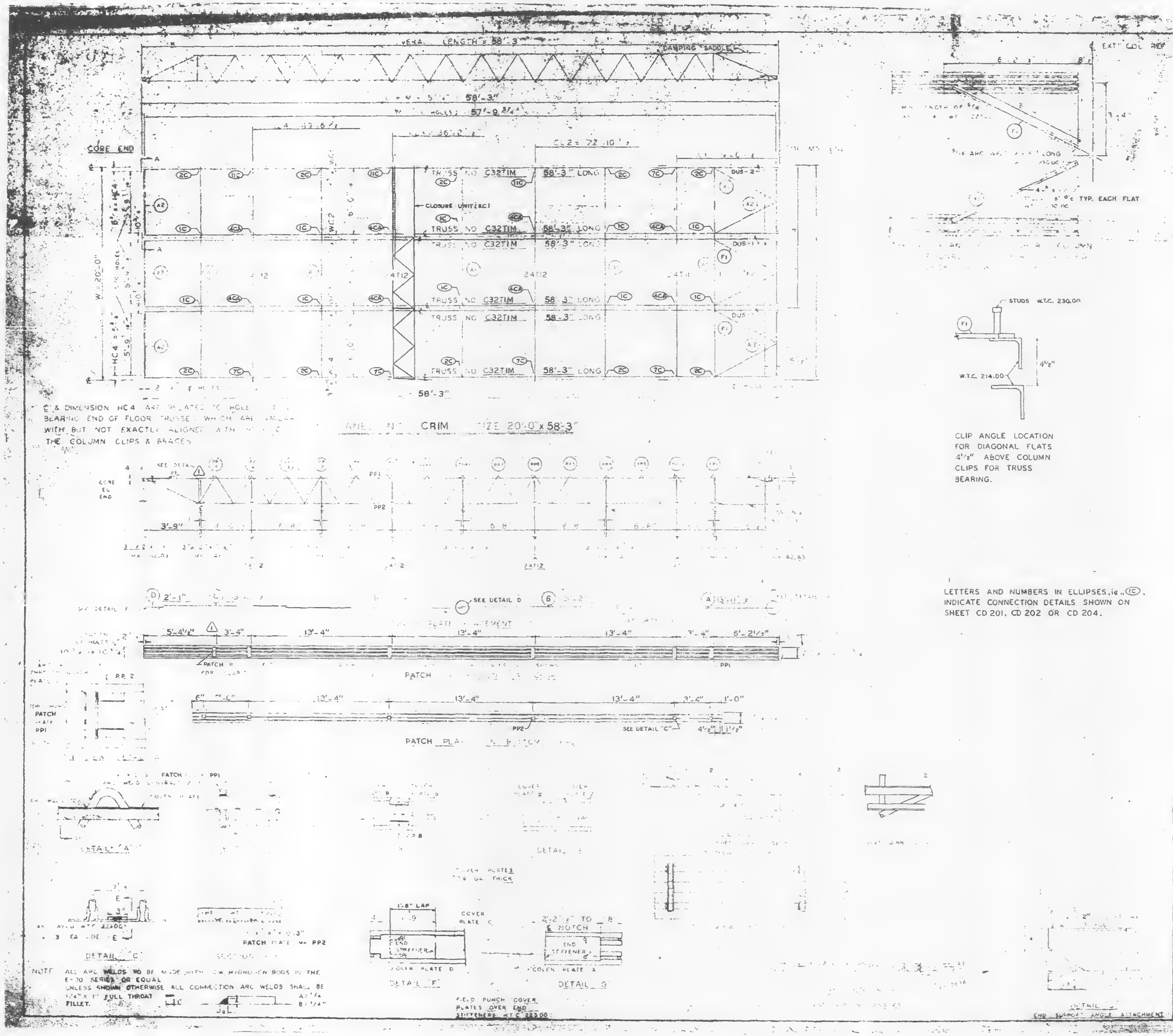
△1	6-9-69	AS NOTED	G.D.C.
NO.	DATE	REVISION	BY

△1	[illegible]	10-15-68
	[illegible] 39	7-22-68
	[illegible] 41	7-22-68
	[illegible]	1-6-69
	[illegible] ABJ-7	1-3-69
	[illegible]	7-22-68
	[illegible] 37	7-22-68
	7 ABA 42	10-15-68

FLOOR PANEL DETAILS
[illegible] CENTER N.Y.C.
[illegible]
[illegible] NEW YORK AUTHORITY
[illegible] 45-46 (S) 46 (N)
PANEL CRIK [illegible] x 58'-6"
BLDG. 8 FLOORS 45 (EAST) 46 (EAST & WEST)

FABRICATED BY LACLEDE STEEL COMPANY
[illegible] MADISON, ILLINOIS

APPROVED FOR FABRICATION James White [illegible] N.Y.A.	DATE 1/2/70	DESIGN DRAWING NO. 7 ABJ-8	PLATE [illegible]
		DRAWN BY [illegible] DATE OCT 23, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE OCT 23, 1968	IN CHARGE OF 2500 [illegible]
LACLEDE STEEL CO. DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. [illegible] 221	SHEET NO. [illegible] CRIK



℄ & DIMENSION HC4 ARE RELATED TO HOLE [illegible] BEARING END OF FLOOR TRUSSES WHICH ARE [illegible] WITH BUT NOT EXACTLY ALIGNED WITH [illegible] THE COLUMN CLIPS & BRACES

PANEL NO CRIM SIZE 20'-0" x 58'-3"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/16" x 1" FULL THROAT FILLET.

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF. DRWGS
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIM	4	C32TIM - 58'-3"	ST201M
		-		
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4" x 19'-11"	ST 403
	A2	4	3"x2"x1/4" x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	5	1 1/2" x 5/8" x 6'-6"	ST 40[illegible]
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 1/8" x 0'-3"	ST 400
COVER PLATES	A	3	9" x 0.35" x 13'-11 1/2"	ST 303
	B	6	9" x 0.35" x 15'-2"	ST 303
	C	3	9" x 0.135" x 13'-2 1/2"	ST 303
	D	3	9" x 0.135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2" x 1 1/4" x	BT 212
			.230 x 5'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-9-69	AS NOTED	G.D.C.

⚠1

[illegible] 10-15-68
[illegible] 439 7-22-68
[illegible] 41 7-22-68
[illegible] 1-6-69
[illegible] 1-3-69
[illegible] 7-22-68
[illegible] 7-22-68
[illegible] 42 10-15-68

WORLD TRADE CENTER
FOR
[illegible] AUTHORITY

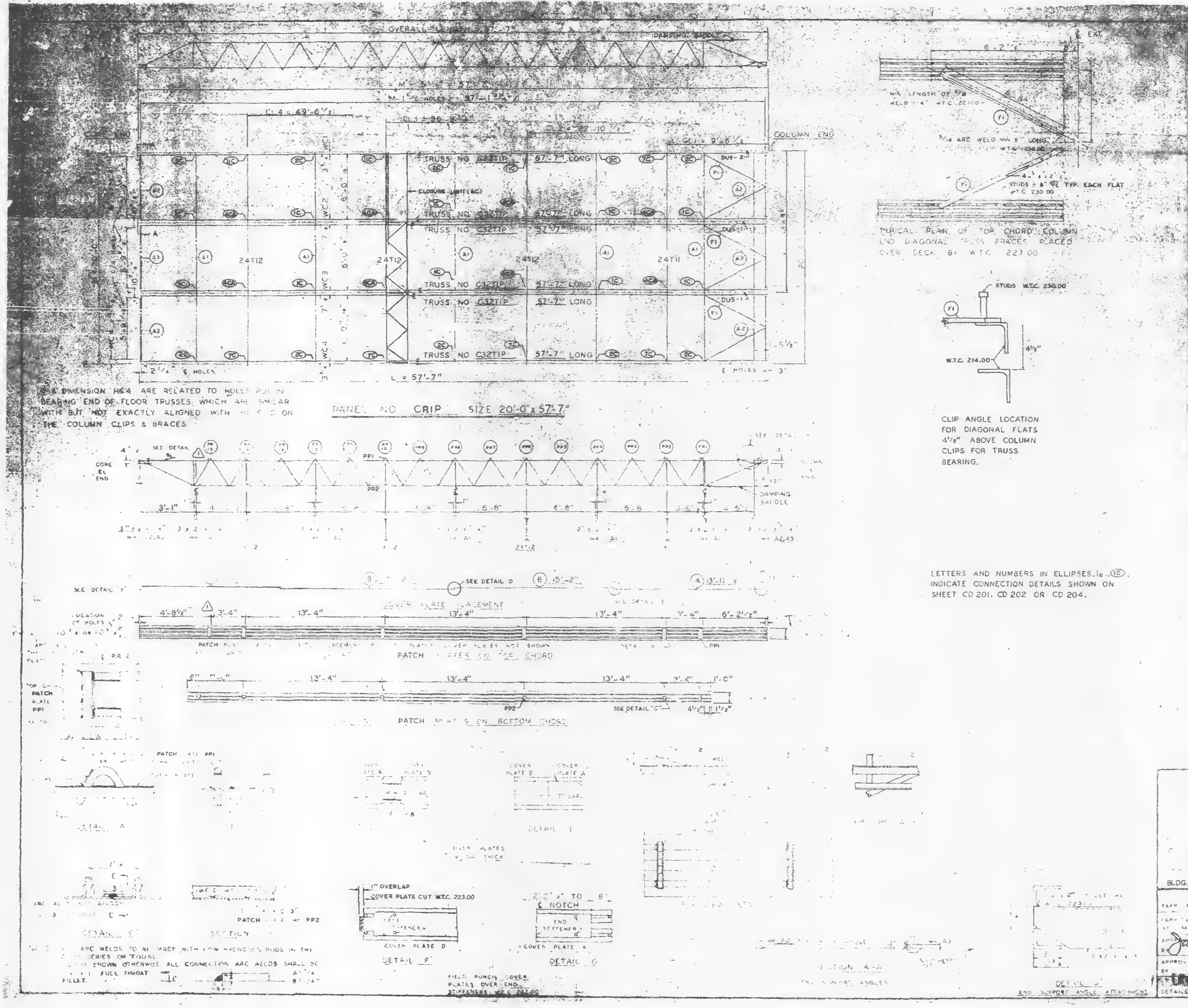
72-73 (N)

CRIM [illegible] x 58'-3"

BLDG. B FLOORS 72-73 (WEST) ⚠1

FABRICATED BY LACLEDE STEEL COMPANY

[illegible] MADISON, ILLINOIS		DESIGN DRAWING NO 7-483-8	PLATE
APPROVED FOR FABRICATION BY James White	DATE 1/2/70	DRAWN BY [illegible] DATE OCT 23, 1968	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO.	DATE	CHECKED BY T.M. CHURA DATE OCT 23, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. CRIM



ALL DIMENSION HS 4 ARE RELATED TO HOLES PJ? IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLES ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE [illegible] SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL FOR PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1P	5	C32T1P x 57'-7"	[illegible]
BRIDGING TRUSSES	T11	1	24T11 x 19'-11"	[illegible]
	T12	3	24T12 x 19'-11"	[illegible]
ANGLE	A1	[illegible]	[illegible]	[illegible]
	A2	4	[illegible]	[illegible]
	A3	2	[illegible]	[illegible]
DIAGONAL FLATS	F1	6	[illegible]	[illegible]
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	[illegible]	9" x .0[illegible]	[illegible]
	B	6	9" x .0135" x 13'-[illegible]	[illegible]
	C	3	9" x .0135" x 13'-[illegible]	[illegible]
ANGLE CLIPS	CL	21	2" x 1 1/2" [illegible]	[illegible]
#8 SHEAR ANCHOR	SA8	9	#8 REBAR [illegible]	[illegible]
DAMPING SADDLE	DUS-1	2	[illegible]	[illegible]
	DUS-2	1	3 1/2" x 3 1/2" x [illegible]	[illegible]
CONNECTION BAR	CB1	[illegible]	1" x 1'-[illegible]	[illegible]
CLOSURE UNIT	BC	3	2 ∠-1 1/2 x [illegible] x 230 x 6'-6 1/2"	[illegible] CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-[illegible]	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.D.C.

1 [illegible]	10-15-68
[illegible]	7-22-68
[illegible]	7-22-68
[illegible]	1-6-69
A&3	[illegible]
48	7-22-68
[illegible]	7-22-68
ABA [illegible]	10-15-68

74 (N)

CRIP 20'-0" x 57'-7"

BLDG. B FLOORS 74 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. [illegible] AB3-B

PLATE

APPROVED FOR FABRICATION BY James White FOR PONYA DATE 1/2/70

DRAWN BY [illegible] DATE OCT 23, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

CHECKED BY T.M. CHURA DATE OCT 23, 1968

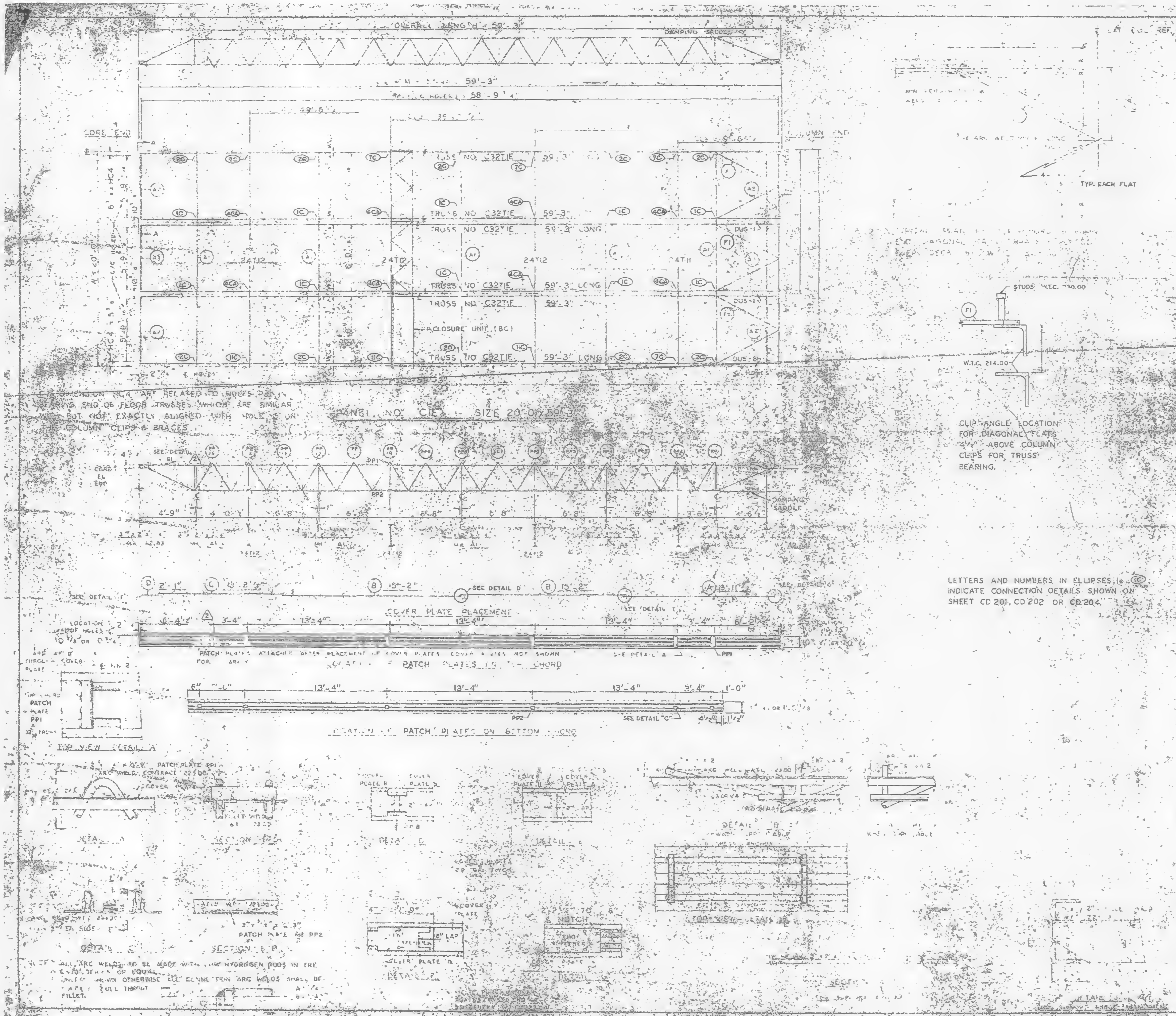
IN CHARGE OF [illegible] PROD. REV. [illegible]

LACLEDE STEEL CO

DETAILED BY A.C. [illegible]

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP-CRIP



DIMENSION HC4 ARE RELATED TO HOLES IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	C32TIE - 59'-3	[illegible]
[illegible] TRUSSES	T11	1	24T [illegible]	[illegible]
	T12	3	24T [illegible] 9'-1"	ST 212
[illegible] ANGLE	A1	5	3 x 2" x [illegible] x 9	ST 403
	A2	4	3 x 2" x ¼ x 5 [illegible]	ST 403
	A3	2	3 x 2" x ¼ x [illegible]	ST 403
DIAGONAL [illegible]	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] x 3'-3"	ST 400
COVER PLATES	A	3	[illegible]	ST 403
	B	6	9 x 0.135 x 15'-2	ST 403
	C	3	9" x 0.135 x 13'-[illegible]	ST 403
	D	3	9" x 0.135 x 2'-1"	ST 403
ANGLE CLIPS	C1	21	2" x 1½ x ¼ x 0'-6	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	[illegible]	3½ x 3½ x [illegible] x 3-5⅞	ST 298
	DUS-2	1	3½ x 1 [illegible] x ⅜ x [illegible] 5⅞	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-4 x 1½" x 1¼" x [illegible]	ST 212
			230 x 6'-6½"	CD 204
CONNECTION PLATES	P1	5	3½" x [illegible]" x 0'-8½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½ x .39" x 1'-0"	ST 400

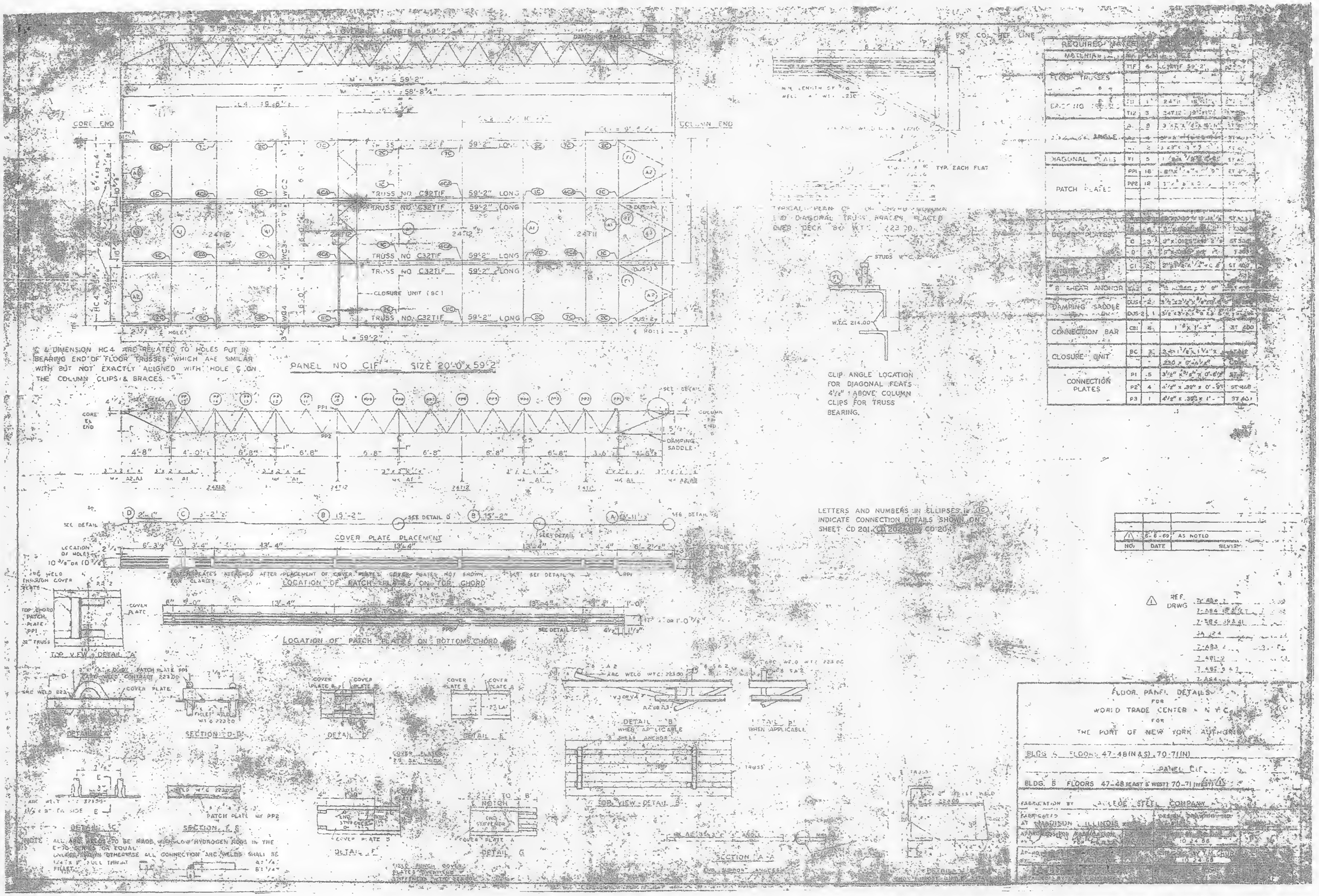
NO.	DATE	REVISION	BY
2	6-6-69	AS NOTED	G.R.C.
1	7-17-68	GENERAL	T.M.C.

2
AB3 [illegible] 9-15-68
AB3 [illegible] 7-22-68
AB4 41 7-22-68
SA [illegible] 1-6-69
AB3 2 [illegible]
AB3 2 7-22-68
AB2 5 6 [illegible] 7-22-68
AB4 42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
PORT OF NEW YORK AUTHORITY

BLDG A [illegible] 10-11 (NORTH & SOUTH)
PANEL TIE [illegible] 59-3

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. AB3-2
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE APRIL 10, 1968
CHECKED BY J.R.PAUL DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FD C1E



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO C1F SIZE 20'-0" x 59'-2"

TYPICAL PLAN OF [illegible] END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES ie (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL				
MATERIAL	[illegible]	[illegible]	[illegible]	REF.
FLOOR TRUSSES	T1F	6	C32T1F 59'-2"	[illegible]
BRACING TRUSSES	T11	1	24T11 [illegible]	[illegible]
	T12	3	24T12 [illegible]	[illegible]
[illegible] ANGLE	A	3	3 x 2 x 1/4 x [illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	ST 400
	[illegible]	2	3 x 3 x [illegible]	[illegible]
DIAGONAL FLATS	F1	5	[illegible]	ST 400
PATCH PLATES	PP1	16	8" x [illegible]	[illegible]
	PP2	18	3" x [illegible]	[illegible]
COVER PLATES	[illegible]	[illegible]	[illegible]	[illegible]
	B	6	[illegible]	[illegible]
	C	3	9" x .0135" x 13'-2"	ST 300
	D	3	[illegible]	[illegible]
ANGLE CLIPS	C1	2	2" x [illegible] x 1/4" x [illegible]	ST 400
8" SHEAR ANCHOR	SA2	5	[illegible]	[illegible]
DAMPING SADDLE	DUS-1	2	3½ x 2½ x [illegible]	[illegible]
	DUS-2	1	3½ x 3 x [illegible]	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1½ x 1¼ x [illegible]	[illegible]
			230 x 6' x 6½"	[illegible]
CONNECTION PLATES	P1	5	3½" x 3/8" x 0'-6½"	[illegible]
	P2	4	4½" x .39" x 0'-[illegible]	ST 400
	P3	1	4½" x .39" x 1'-[illegible]	ST 400

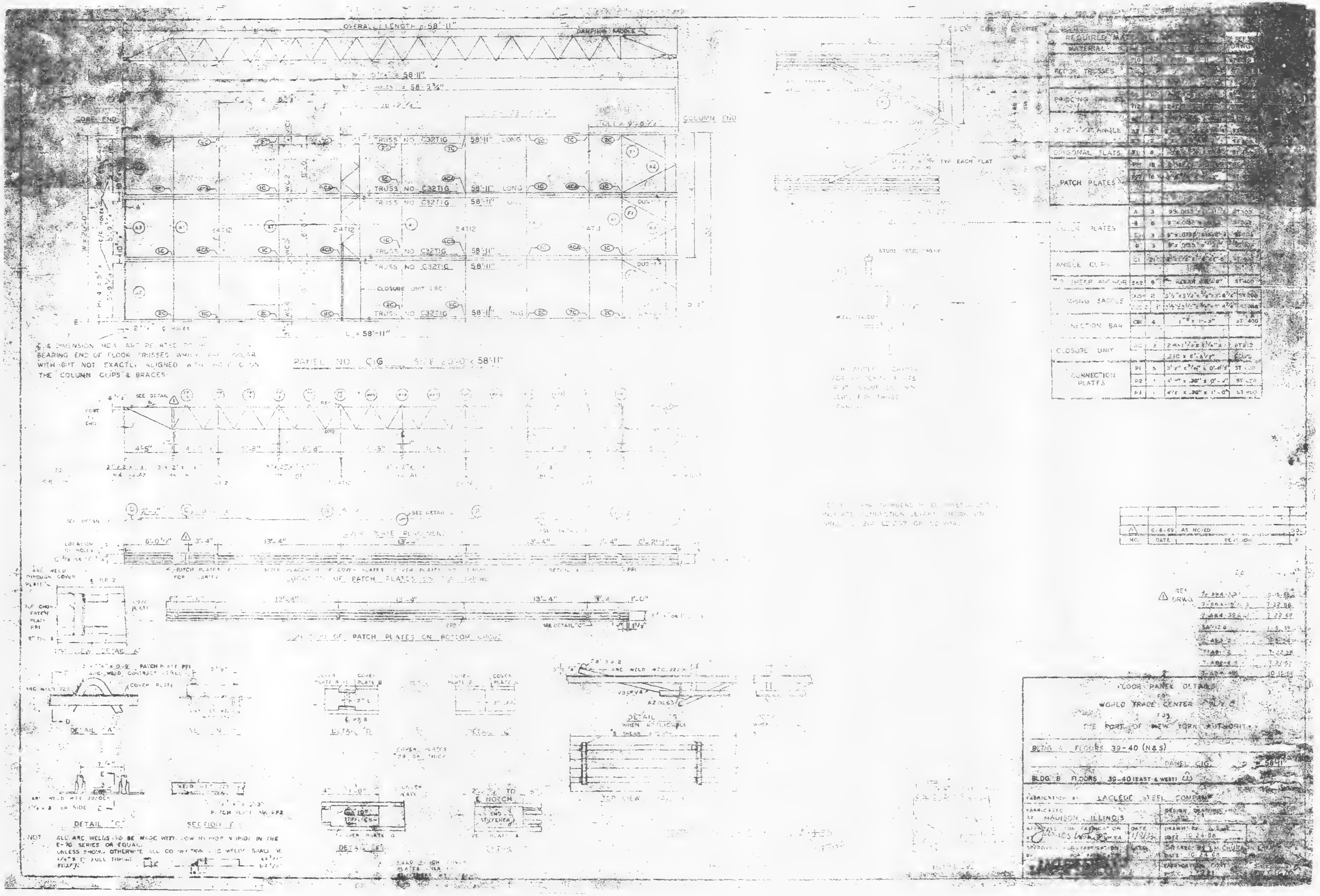
NO.	DATE	REVISION
⚠1	6-6-69	AS NOTED

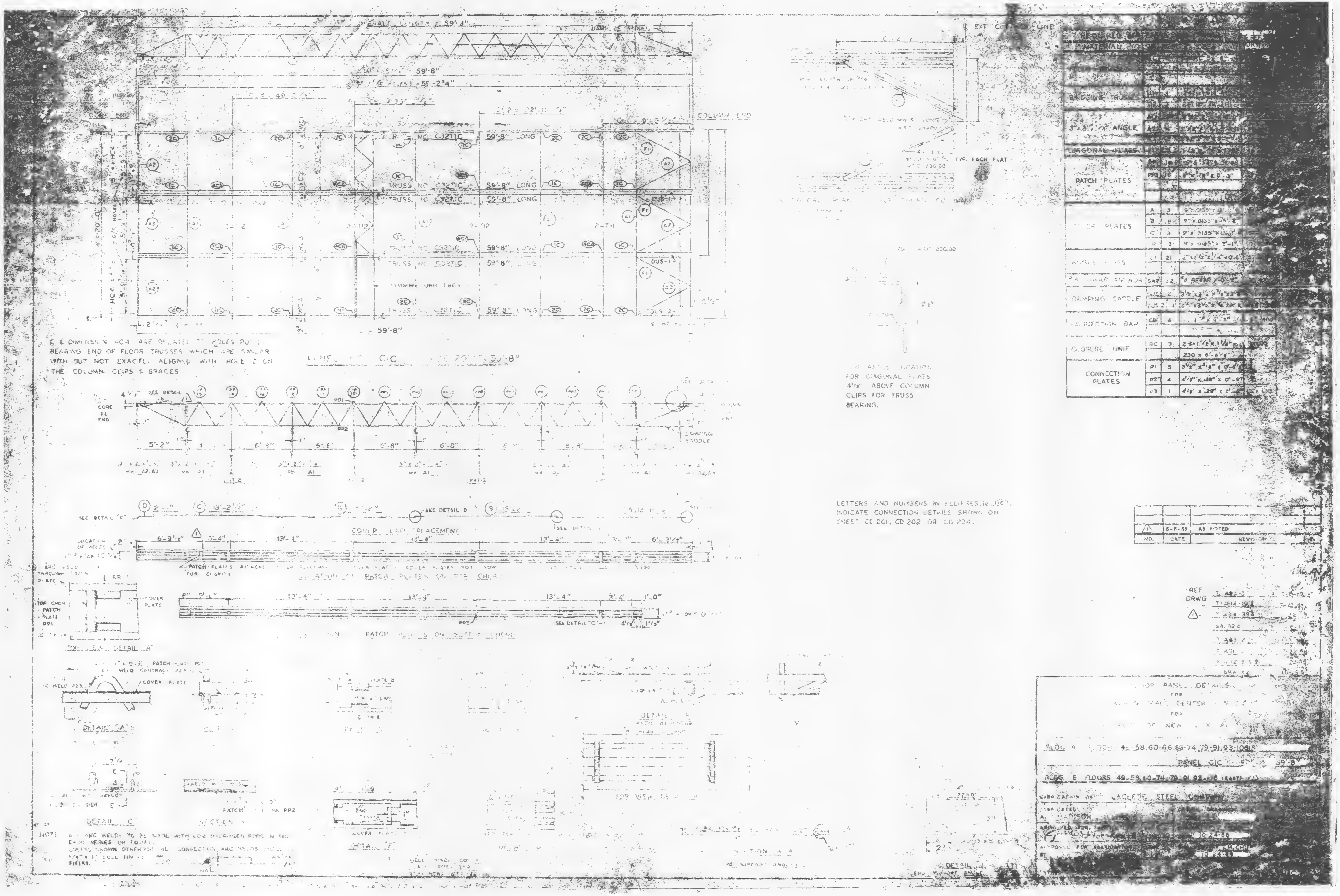
⚠1 REF. DRWG
7-AB4 [illegible]
7-AB4 [illegible]
7-AB4 39 & 41
3A 124
7-AB3 2
7-AB1-2
7-AB2 9 & 7
7-AS4

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 47-48 (N & S), 70-71 (N)
PANEL C1F
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
10 24 68
CHECKED BY T.M. CHURA
10 24 68


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO. C32T1G 58'-11" LONG
CLOSURE UNIT (8C)
L = 58'-11"
℄ & DIMENSION ... ARE RELATED TO ... BEARING END OF FLOOR TRUSSES WHICH ARE ... WITH BUT NOT EXACTLY ALIGNED WITH ... ON THE COLUMN CLIPS & BRACES
PANEL NO. C1G SIZE 20'-0" x 58'-11"
SEE DETAIL
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
REQUIRED MATERIAL
TRUSSES
BRIDGING
3 1/2" x 1/4" ANGLE
DIAGONAL FLATS
PATCH PLATES
COVER PLATES
ANGLE CLIPS
SHEAR ANCHOR
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
STUDS
DETAIL "A"
SECTION
DETAIL "B"
DETAIL "C"
SECTION "E"
DETAIL "G"
WHEN APPLICABLE
TOP VIEW
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ... WELDS SHALL BE 1/4" x 1" FULL THROAT
1 6-6-69 AS NOTED
NO. DATE REVISION
REF. DRWG.
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 39-40 (N&S)
PANEL C1G
BLDG. B FLOORS 39-40 (EAST & WEST)
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
APPROVAL FOR FABRICATION
DATE
DRAWN BY
DATE 10-24-68
CHECKED BY T.M. CHURA
DATE 10-24-68



PANEL NO. C1C

& & DIMENSION HC4 ARE RELATED TO HOLES PUNCHED BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE 2 ON THE COLUMN CLIPS & BRACES

FOR ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1½" FULL THROAT FILLET.

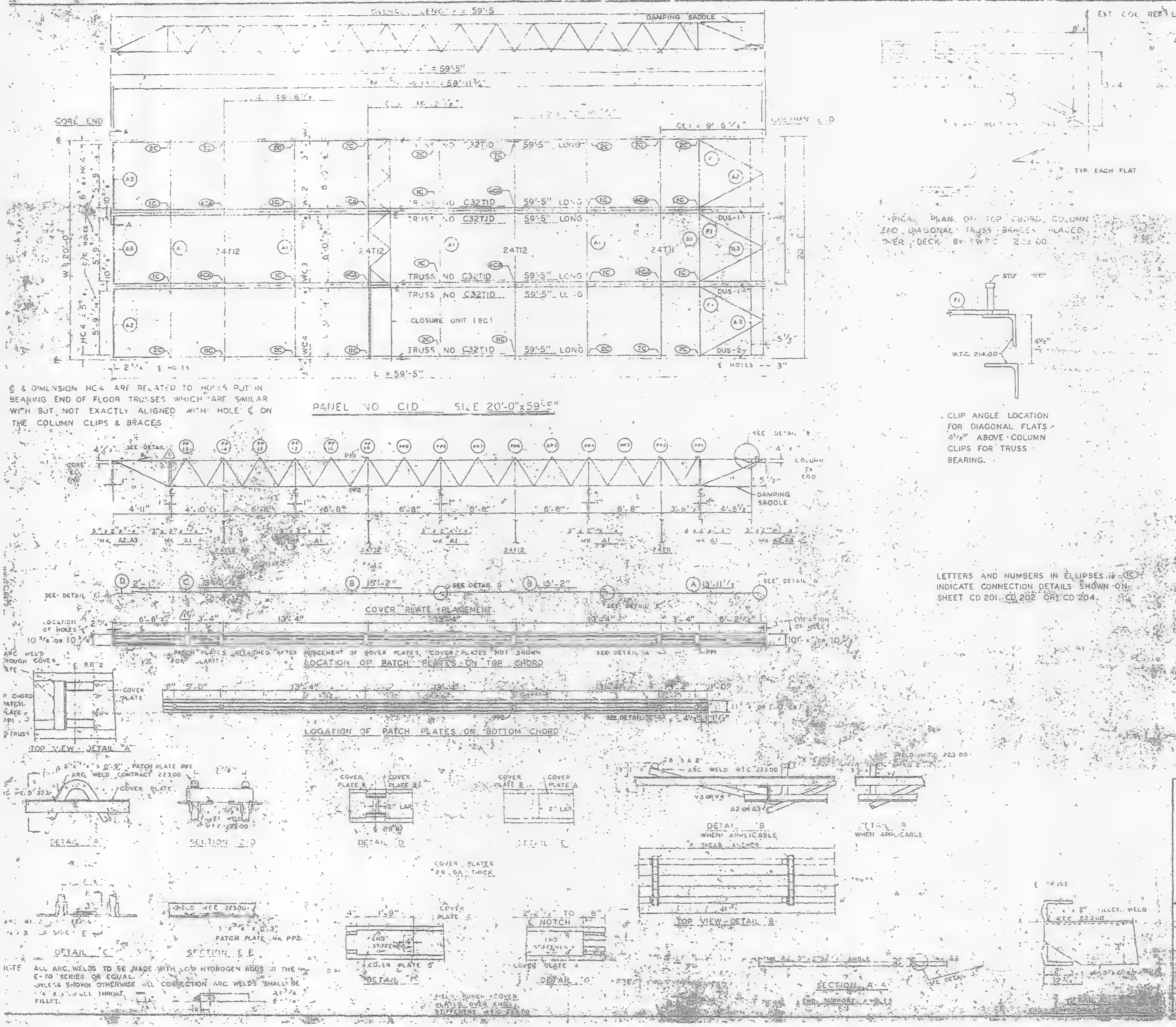
REQUIRED MATERIAL			
BRIDGING TRUSS	[illegible]	[illegible]	[illegible]
3½"x3½"x¼" ANGLE	A2	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	[illegible]	[illegible]
	PP2	16	[illegible] x 0'-3"
FILLER PLATES	A	3	9"x .0135" x [illegible]
	B	6	9"x .0135" x [illegible]-2
	C	3	9"x .0135" x [illegible]
	D	3	9"x .0135" x 2'-1"
ANGLE CLIPS	C1	21	2"x1½"x¼"x0'-6"
SHEAR ANCHOR	SA2	12	#6 REBAR [illegible]
DAMPING SADDLE	DUS 1	2	3½"x3½"x⅜"x3[illegible]
	DUS 2	1	3½"x3½"x⅜"x[illegible]
CONNECTION BAR	CB1	4	[illegible] x 1'-3"
CLOSURE UNIT	BC	3	2-L 1½"x1½"x[illegible]
			230 x 6'-6½"
CONNECTION PLATES	P1	5	3½" x ¼" x 0'-6[illegible]
	P2	4	4½" x .38" x 0'-9"
	P3	1	4½" x .38" x 1'-[illegible]

NO.	DATE	REVISION
1	6-6-69	AS NOTED

FLOOR PANEL DETAILS
FOR
[illegible] TRADE CENTER
FOR
[illegible] OF NEW YORK [illegible]

BLDG. A FLOORS 49-58, 60-66, 68-74, 79-91, 93-106 (S)
PANEL C1C [illegible] 59'-8"
BLDG. B FLOORS 49-59, 60-74, 79-91, 93-106 (EAST) (2)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED [illegible]
A. MADISON
APPROVED FOR [illegible]
10-24-68
APPROVED FOR FABRICATION
10-24-68



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES ie (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 3" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF DRWG
FLOOR TRUSSES	T1D	8	C32T1D 59'-5"	ET201D
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3"x2"x¼" ANGLE	A1	8	3"x2"x¼"x 19'-3"	ST 403
	A2	4	3"x2"x¼"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x¼"x 5'-0¾"	ST 403
DIAGONAL FLATS	F1	6	1¼"x ⅜"x 6'-9"	ST 402
PATCH PLATES	PP1	18	2"x ¼"x 0'-9"	ST 400
	PP2	48	3"x ⅜"x 0'-3"	ST 400
COVER PLATES	A	3	9"x 0.135"x 13'-11½"	ST 303
	B	6	9"x 0.135"x 15'-2"	ST 303
	C	3	9"x 0.135"x 13'-2½"	ST 303
	D	3	9"x 0.135"x 2'-1"	ST 303
ANGLE CLIPS	C1	2½	2"x 1½"x ¼"x 0'-6"	ST 400
#3 SHEAR ANCHOR	SA2	9	#3 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x 3½"x ⅜"x 3'-8 7/8"	ST 298
	DUS-2	1	3½"x 3½"x ⅜"x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1⅜"x 1'-3"	ST 400
CLOSURE UNIT	8C	3	2 - ⊥ 1½"x 1¼"x .230 x 6'-6½"	BT212 CD204
CONNECTION PLATES	P1	5	3½"x ⅜"x 0'-6½"	ST 400
	P2	4	4½"x .39"x 0'-9"	ST 400
	P3	1	4½"x .39"x 1'-0"	ST 400

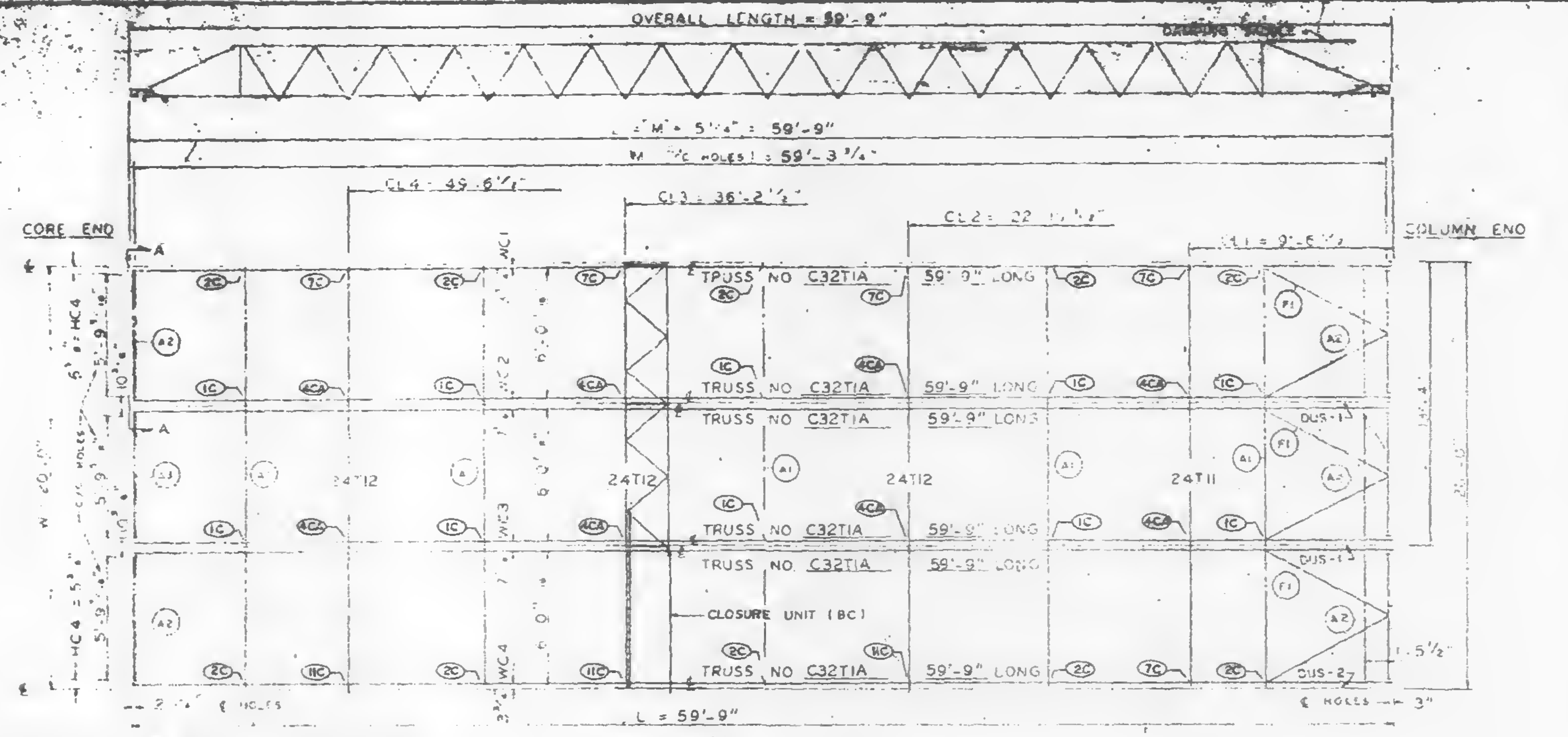
NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	G.O.

REF DRWG
7-A84-3,31 10-15-68
7-A84-15 & 16 7-22-68
⚠ 7-A84-39 & 41 7-22-68
SA-124 1-6-69
7-A83-2 1-3-68
7-A81-2 7-22-68
7-A82-6 & 7 7-22-68
7-A84-42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

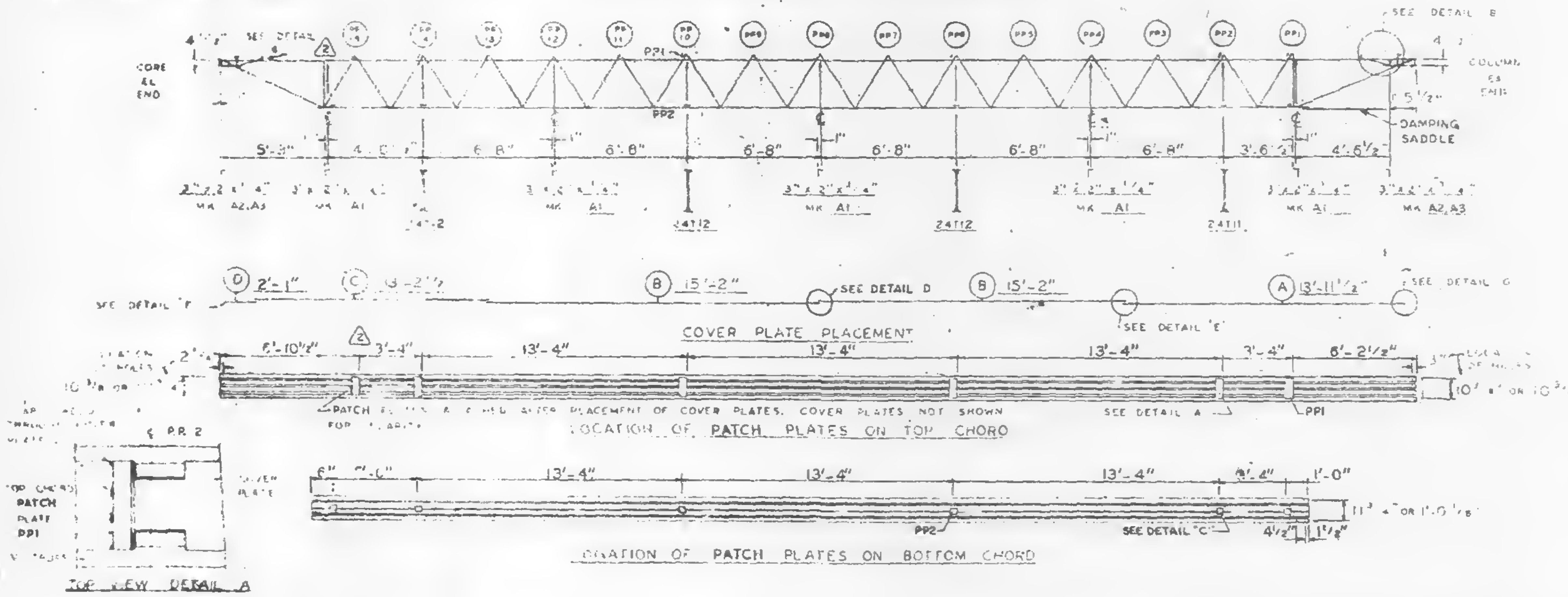
BLDG A FLOORS 81-82 (N)
PANEL C1D 20'-0" x 59'-5"
BLDG. B FLOORS 81-82 (WEST) ⚠

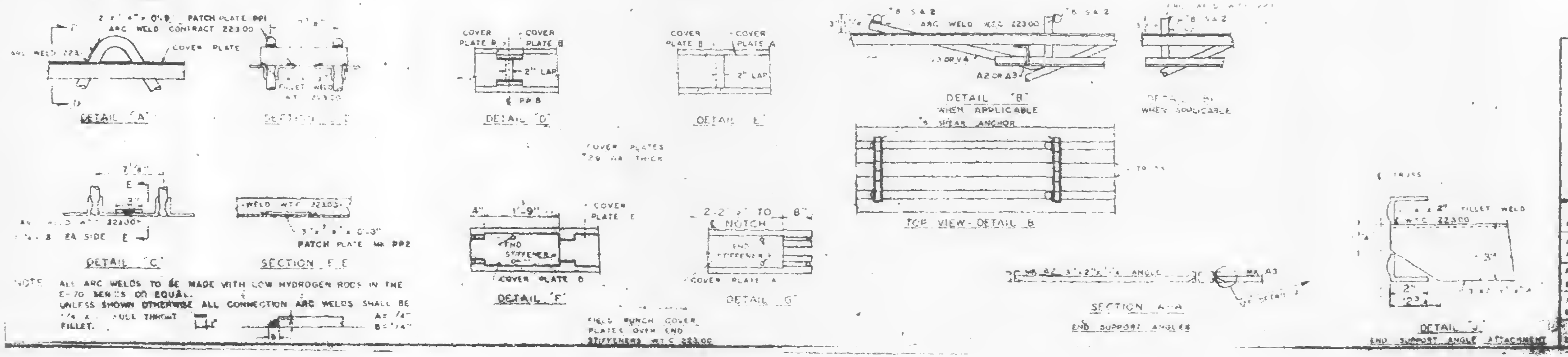
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-7
APPROVED FOR FABRICATION
DRAWN BY
DATE 10-24-68
APPROVED FOR FABRICATION
CHECKED BY T.M. CHURA
DATE 10-24-68
IN CHARGE



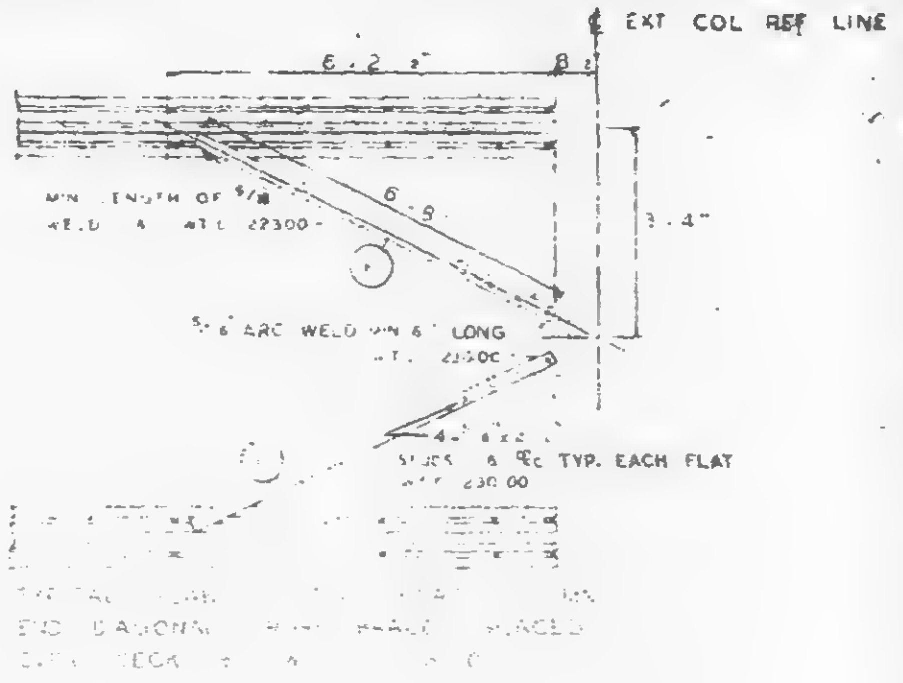
E & DIMENSION HC4 ARE RELATED TO HOLES FOR IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

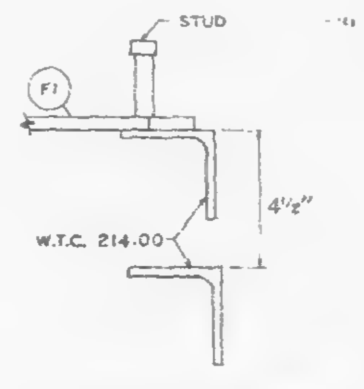
PANEL NO C1A SIZE 20'-0"x 59'-9"





NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4 x FULL THROAT FILLET.
A = 1/4"
B = 1/4"





CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie.,(1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL [illegible]				REF. DRWGS
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	[illegible]	ST212
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3"x 2"x 1/4" ANGLE	A1	8	3"x2"x 1/4"x [illegible]	ST 403
	A2	4	3"x2"x 1/4"x 5'-11 5/8"	ST 403
	A3	2	3"x2"x 1/4"x 5'-10 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 3/8"x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x 1/4"x 0'-9"	ST 400
	PP2	18	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	3	9"x.0135"x 13'-11 1/2"	ST303
	B	6	9"x.0135"x 15'-2"	ST303
	C	3	9"x.0135"x 13'-2 1/2"	ST303
	D	3	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x 1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1"Φ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2" x 1/4" x	ST212
			230 x 6'-8 1/2"	[illegible]
CONNECTION PLATES	P1	5	3 1/2"x 3/8"x 0'-6 1/8"	[illegible]
	P2	4	4 1/2"x .30"x 0'-9"	ST 400
	P3	1	4 1/2"x .30"x 1'-0"	ST 400

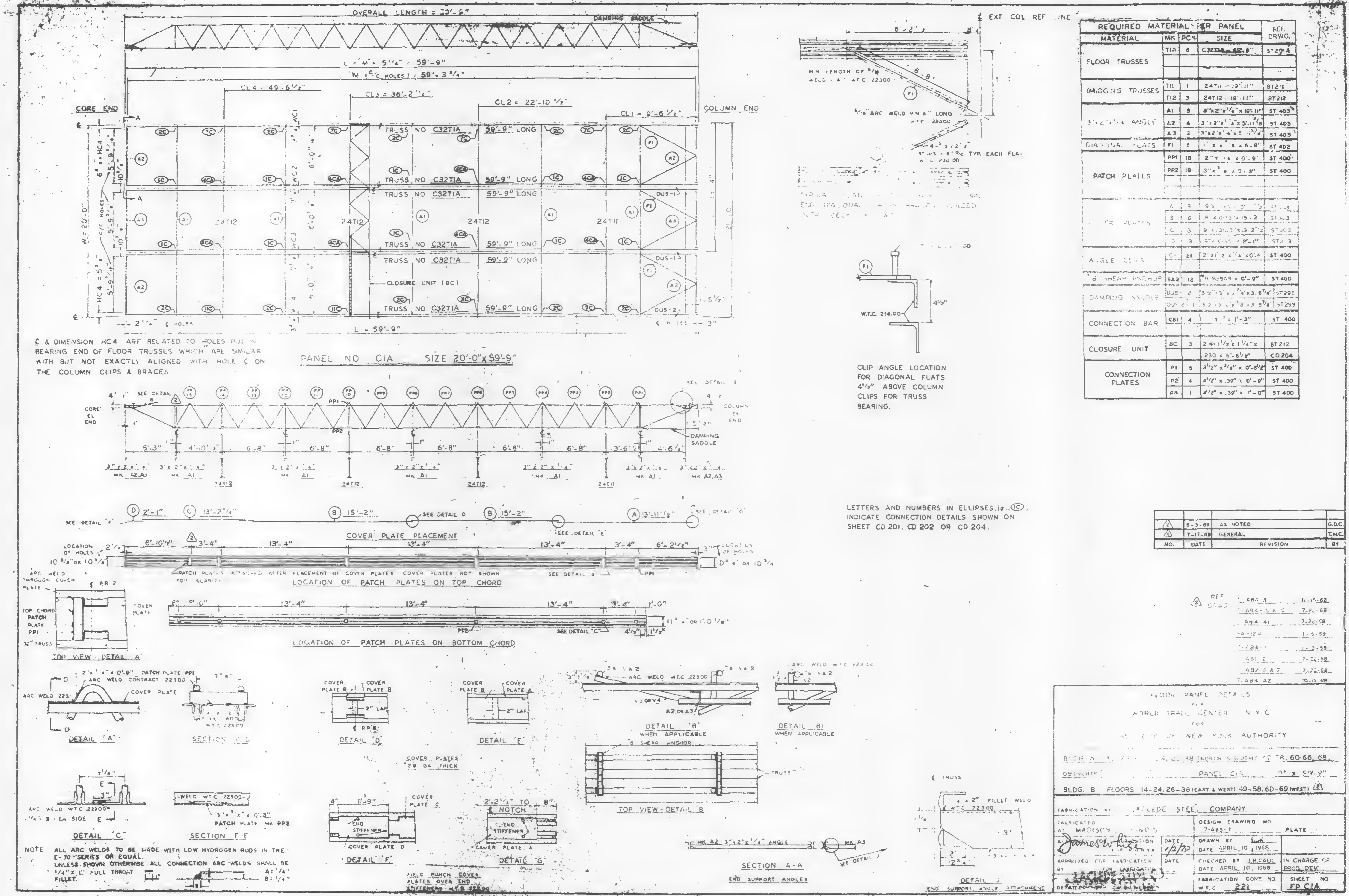
2	6-5-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.W.C.
NO.	DATE	REVISION	BY

2 REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-58
SA-12 4	1-5-69
7-AB3-2	1-3-68
7-AB1-2	7-22-58
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, [illegible]
69 (NORTH) PANEL C1A [illegible] x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-66 [illegible]

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-[illegible]-7
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE [illegible]
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY [illegible] DATE [illegible] 10, 1968
[illegible] CONT. [illegible]



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1½" FULL THROAT FILLET.

REQUIRED MATERIAL FOR PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	8	C32T1A x 59'-9"	ST 291A
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT 211
	T12	3	24T12 - 19'-11"	BT 212
3"x2"x¼"x ANGLE	A1	8	3"x2"x¼"x 19'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11⅝"	ST 403
	A3	2	3"x2"x¼"x 5'-11¾"	ST 403
DIAGONAL FLATS	F1	5	1½" x ⅜" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x ¼" x 0'-9"	ST 400
	PP2	18	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	3	9" x .0155" x 3'-1½"	ST 303
	B	6	9" x .0155" x 15'-2"	ST 303
	C	3	9" x .0155" x 13'-2½"	ST 303
	D	3	9" x .0155" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1½" x ¼" x 0'-5"	ST 400
#5 SHEAR ANCHOR	SA2	12	#5 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ∠s 1½" x 1¼" x	BT 212
			.230 x 6'-6½"	CO 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

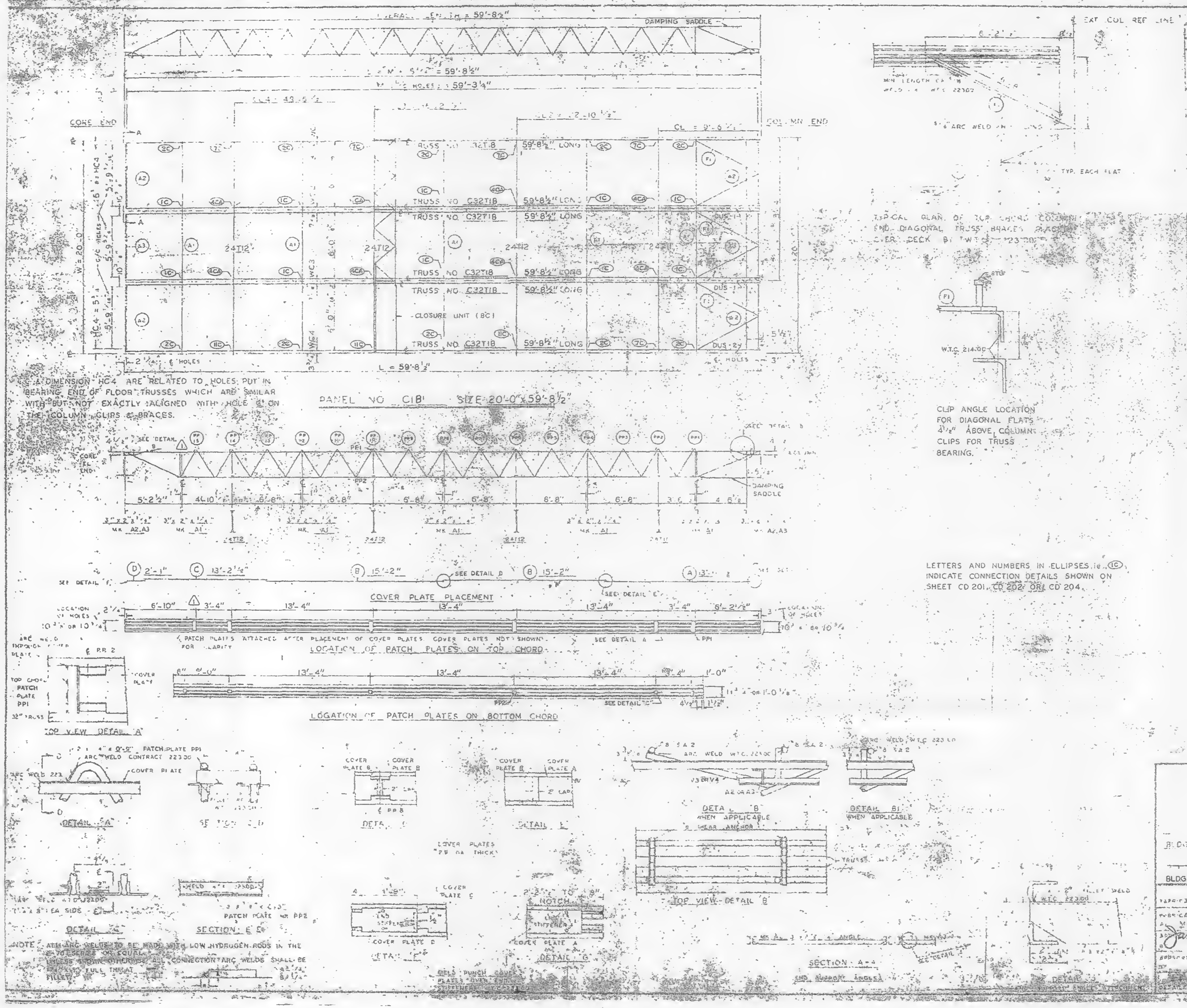
NO.	DATE	REVISION	BY
②	6-5-69	AS NOTED	G.D.C.
①	7-17-68	GENERAL	T.M.C.

② REF. DRWG.
7-AB4-3 10-15-68
7-AB4-5 & 6 7-22-68
7-AB4-41 7-22-68
SA-124 1-5-59
7-AB3-7 1-3-68
AB1-2 7-22-68
AB2-5 & 7 7-22-68
7-AB4-42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 14-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68,
69 (NORTH) PANEL C1A 20' x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST) ②

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-7 PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 1/2/70
DRAWN BY DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP C1A



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. C1B' SIZE 20'-0" x 59'-8½"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES i.e. ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1B	6	C32T1B 59'-8½"	[illegible] 7B
[illegible] TRUSSES	[illegible]		[illegible]	
	T12	3	24T [illegible]	[illegible]
[illegible] ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST [illegible]
	[illegible]	4	[illegible]	ST [illegible]
		[illegible]	[illegible]	ST [illegible]
[illegible]		[illegible]	[illegible]	ST 402
PATCH [illegible]	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
COVER PLATES	A	3	9"x.085" x 13'-1½"	ST 403
	B	6	9"x.085"x 15'-2"	ST 303
	C	3	9"x.0135"x 13'-2½"	ST 403
	D	3	9"x .083"x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2"x1½"x ¼"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-8⅞"	ST 296
	DUS-2	1	3½"x3½"x⅜"x3'-8⅞"	ST 298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CLOSURE UNIT	8C	3	2-[illegible]1½"x1¼"x .230 x 6'-6½"	ST 212 CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-5½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-5-69	AS NOTED	GDI

⚠1 REF. DWGS.

7-AB4-1	10-15-68
7-AB4-15 & 16	7-22-68
AB4-39 & 41	7-22-68
SA-124	1-6-69
7-AB3-2	[illegible]
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

[illegible] PANEL DETAILS

THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (N)

PANEL C1B 20'-0" x 59'-8½"

BLDG. B FLOORS 83-91, 93-106 (WEST) ⚠1

FABRICATED BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-2 PLATE [illegible]

APPROVED FOR FABRICATION James White DATE 1/2/70

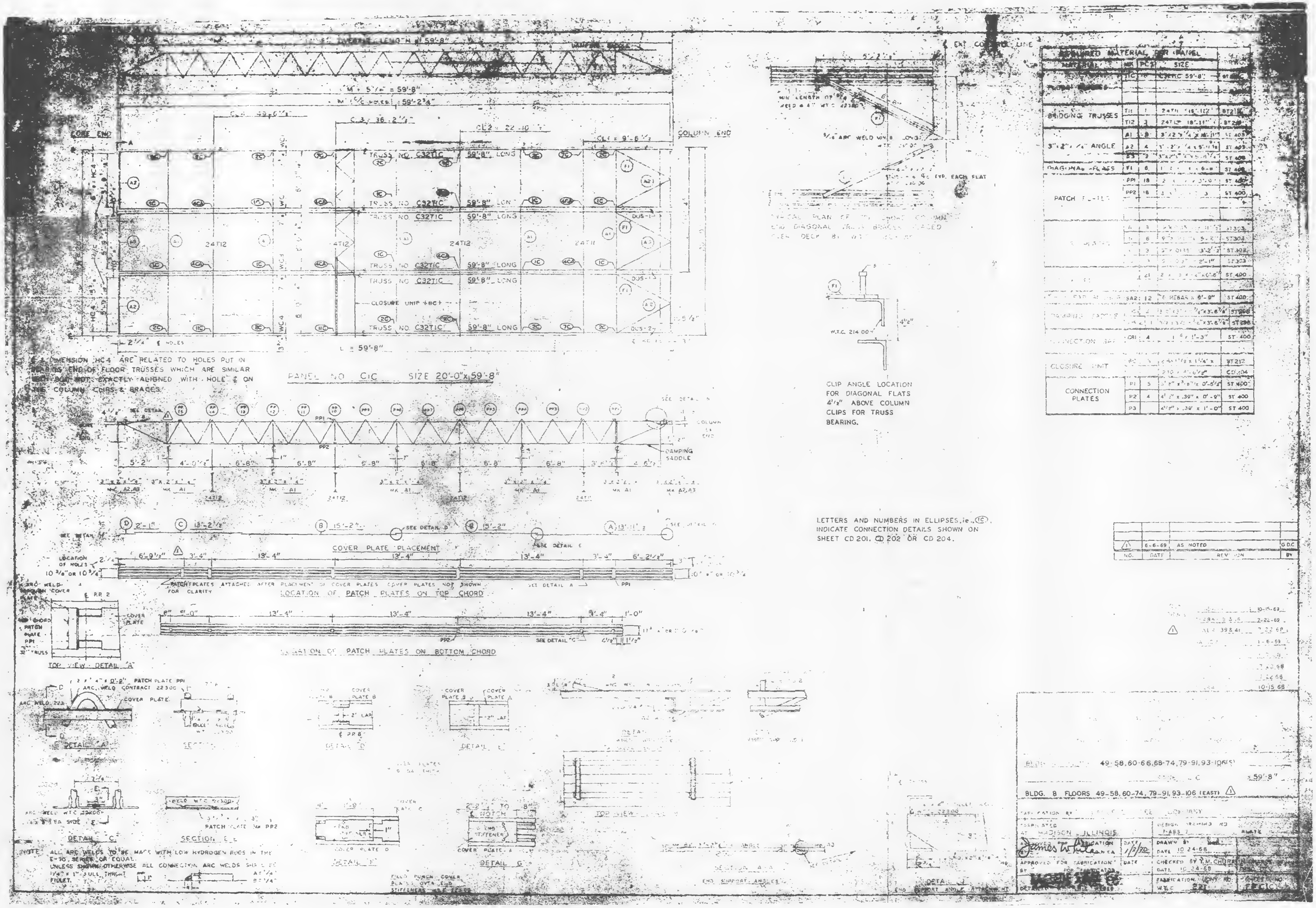
DRAWN BY [illegible] DATE 10-24-68

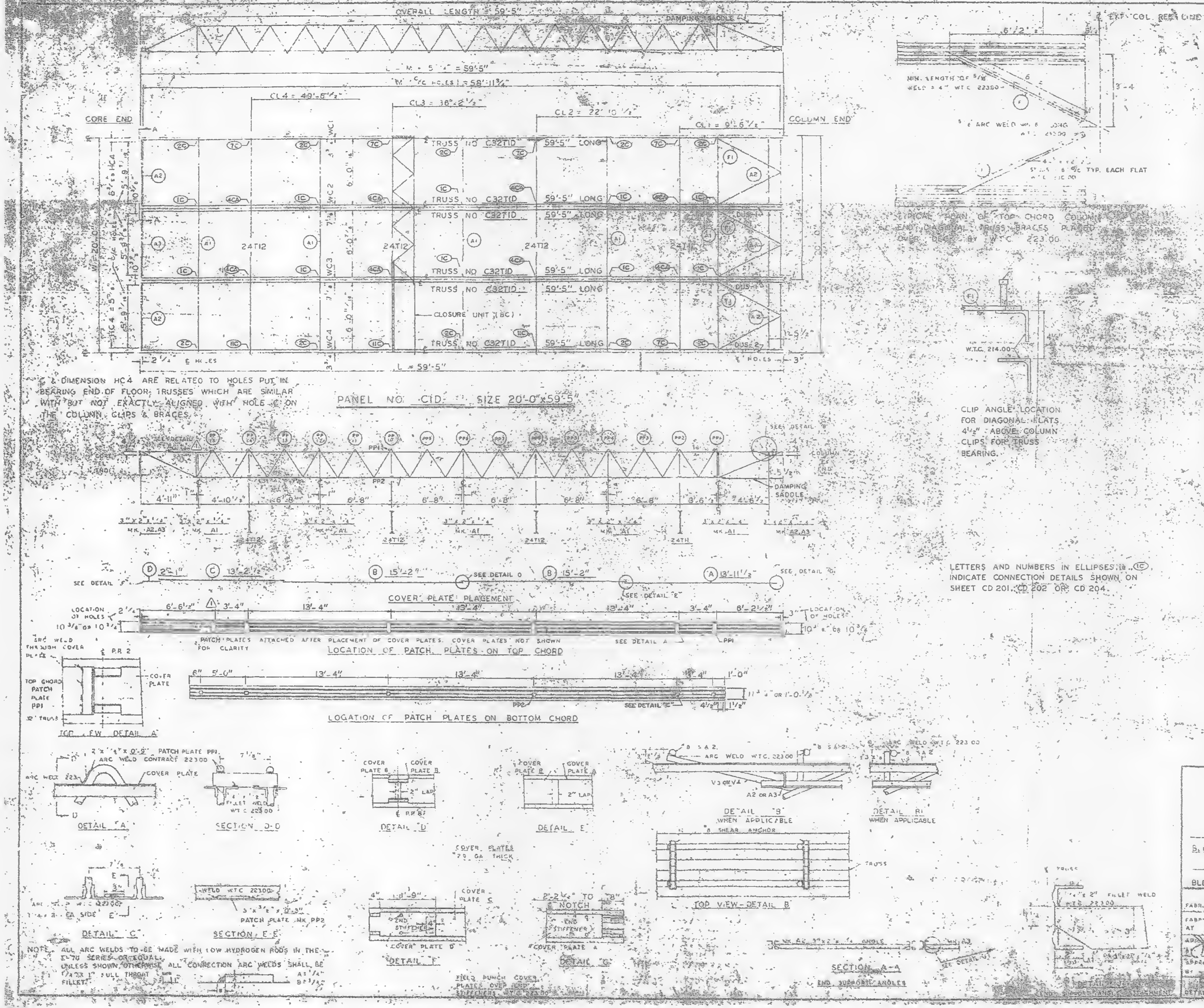
CHECKED BY T.M. CHURA DATE 10-24-68

IN CHARGE OF [illegible]

FABRICATION CONTRACT NO. [illegible]

[illegible] 10

OVERALL LENGTH = 59'-8"
M + 5'/2" = 59'-8"
M' C/C HOLES = 59'-2 3/4"
C.4 = 49-6 1/2"
C.3 = 36-2 1/2"
CL 2 = 22-10
CL1 = 9'-6 1/2
CORE END
COLUMN END
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
CLOSURE UNIT 6BC
24T12
24T11
L = 59'-8"
HC4
WC4
DUS
2 1/4" HOLES
C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CHIRS & BRACES
PANEL NO. C1C SIZE 20'-0" x 59'-8"
SEE DETAIL A
PP1
PP2
DAMPING SADDLE
COLUMN END
5'-2"
4'-0 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-8"
4'-6"
3"x2"x1/4" MK A2,A3
3"x2"x1/4" MK A1
MK A2,A3
24T12
24T11
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15'-2"
A 13'-11"
SEE DETAIL B
SEE DETAIL D
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8" OR 10 3/4"
6'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
6" 5'-0" 13'-4" 13'-4" 13'-4" 3'-4" 1'-0"
SEE DETAIL "C"
4 1/2" 1 1/2"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
PP2
COVER PLATE
TOP VIEW - DETAIL "A"
PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
ARC WELD 223
DETAIL "A"
SECTION
COVER PLATE B
2" LAP
PP8
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "E"
DETAIL B
DETAIL
TOP VIEW
ARC WELD W.T.C. 22300
EA SIDE
DETAIL "C"
WELD W.T.C. 22300
PATCH PLATE MK PP2
SECTION E-E
COVER PLATE D
END STIFFENER
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
SECTION A-A
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/16" x 1" FULL THROAT FILLET.
5'-2"
MIN LENGTH OF WELD 4" W.T.C. 22300
F1
5/16 ARC WELD
3'-4"
1/4" x 4" EXP. EACH FLAT
TYPICAL PLAN OF COLUMN END DIAGONAL FLATS BRACES PLACED FLEX DECK
EXT COLUMN LINE
W.T.C. 214.00
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, ie.,1C, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
REQUIRED MATERIAL PER PANEL
MATERIAL | MK | PCS | SIZE | DRWG.
1C | C32T1C 59'-8"
BRIDGING TRUSSES | T11 | 1 | 24T11 16'-11 1/2" | BT211
T12 | 3 | 24T12 18'-11" | BT212
3" x 2" x 1/4" ANGLE | A1 | 8 | ST 403
A2 | 4 | ST 403
A3 | 2 | ST 403
DIAGONAL FLATS | F1 | 6 | ST 400
PATCH PLATES | PP1 | 18 | ST 400
PP2 | 18 | ST 400
SA2 | 12 | REBAR x 6'-9" | ST 400
DAMPING SADDLE | ST 298
CONNECTION BAR | CB1 | 4 | 1'-3" | ST 400
CLOSURE UNIT | BT212 | CD 204
CONNECTION PLATES | P1 | 5 | 0'-5 1/2" | ST 400
P2 | 4 | 4 1/2" x .39" x 0'-9" | ST 400
P3 | 4 1/2" x .39" x 1'-0" | ST 400
1 | 6-6-69 | AS NOTED | GDC
NO. | DATE | REVISION | BY
10-15-68
2-22-69
A1 & 39 & 41 7-22-68
1-6-69
7-22-68
7-22-68
10-15-68
BLDG. 49-58, 60-66, 68-74, 79-91, 93-106 (S)
C x 59'-8"
BLDG. 8 FLOORS 49-58, 60-74, 79-91, 93-106 (EAST) 1
FABRICATION BY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
APPROVED FOR FABRICATION
James W. White
DATE 1/2/70
DRAWN BY
DATE 10-24-68
APPROVED FOR FABRICATION
DATE
CHECKED BY T.M. CHURA
DATE 10-24-68
FABRICATION CONT. NO.
W.T.C. 221
SHEET NO.
FE C1C



& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	6	C32T1D 59'-5"	ST201D
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3 x 2 x ¼ ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
DIAGONAL FLATS	F1	[illegible]	[illegible] x 6-9	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0'-9"	ST 400
	PP2	48	[illegible] x 0'-3"	ST 400
COVER PLATES	A	3	9"x 0135" x 13'-[illegible]½"	ST303
	B	6	9"x 0135"x 15'-2"	ST303
	C	3	9"x 0135"x 13'-2½"	ST303
	D	3	9"x 0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	1	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	4	[illegible] 1⅝ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1½"x 1¼" x	BT212
			.230 x 6'-6½"	CD204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .38" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	GDC

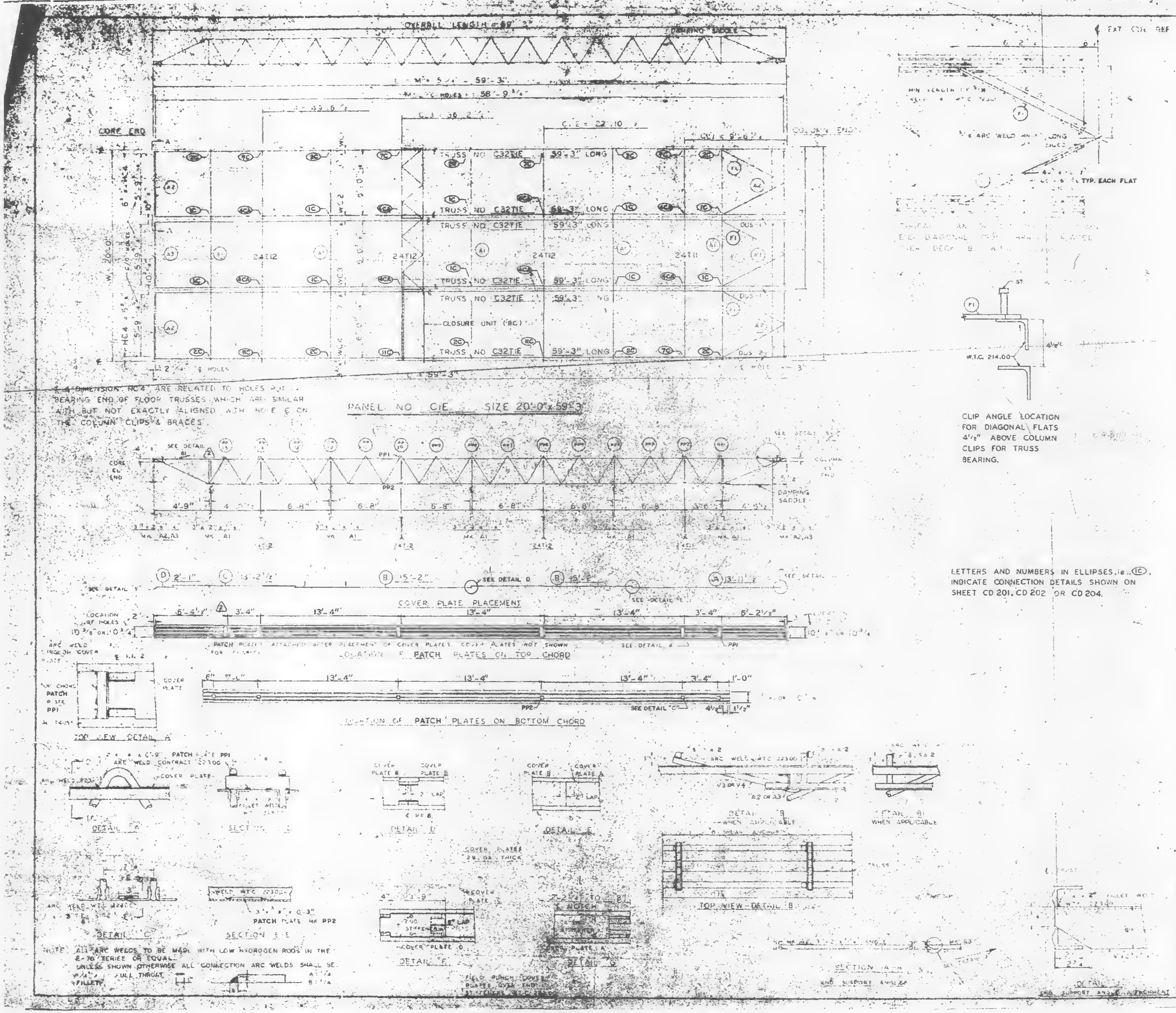
REF DRWG

	7-AB4-3,3.1	10-15-68
	7-AB4-15 & 6	7-22-68
1	7-AB4 39 & 41	7-22-68
	SA 24	1-6-69
	7-AB3 2	1-3-68
	7-AB4 2	7-22-68
	7-AB4 5 & 7	7-22-68
	7-AB4 42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 (N)
PANEL C1D 20' x 59'-5"
BLDG. B FLOORS 81-82 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3 2 DATE
APPROVED FOR FABRICATION BY James White DATE 1/2/70
DRAWN BY DATE 10-24-68
APPROVED FOR FABRICATION BY DATE
CHECKED BY T.M. CHURA DATE 10-24-68
IN CHARGE OF PROD. DEV.
DETAILED BY A.E. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP C1D



C-4 DIMENSION HC4 ARE RELATED TO HOLES FOR BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLETS.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	E		C32TIE	C32TIE
BRIDGING TRUSSES			24	
	T12	3	24T12	BT 212
ANGLE	A1	5	3" x 2" x	ST 403
	A2			ST 403
				ST 403
				ST 402
PATCH PLATES	PP1	18		ST 400
	PP2	18	3"	ST 400
		3		
		3		
		3	2'-1"	
	CL			ST 400
	SA2	5	0'-9"	ST 400
DAMPING			6 7/8	
			6 7/8	
	CB1	4	1'-3"	ST 400
CLOSURE UNIT	BC	3		BT 2
			6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/4" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-6-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.C

2

10-15-68
7-22-68
7-22-68
1-6-69
7-22-68
7-22-68
10-15-68

BLDG A 10-11 (NORTH & SOUTH)

PANEL CIE

FABRICATION BY STEEL COMPANY

FABRICATED AT MADISON

APPROVED James White 1/2/70

DESIGN DRAWING NO. 1463

PLATE

DRAWN BY

DATE APRIL 10, 1969

APPROVAL FOR FABRICATION BY FABRICATOR DATE

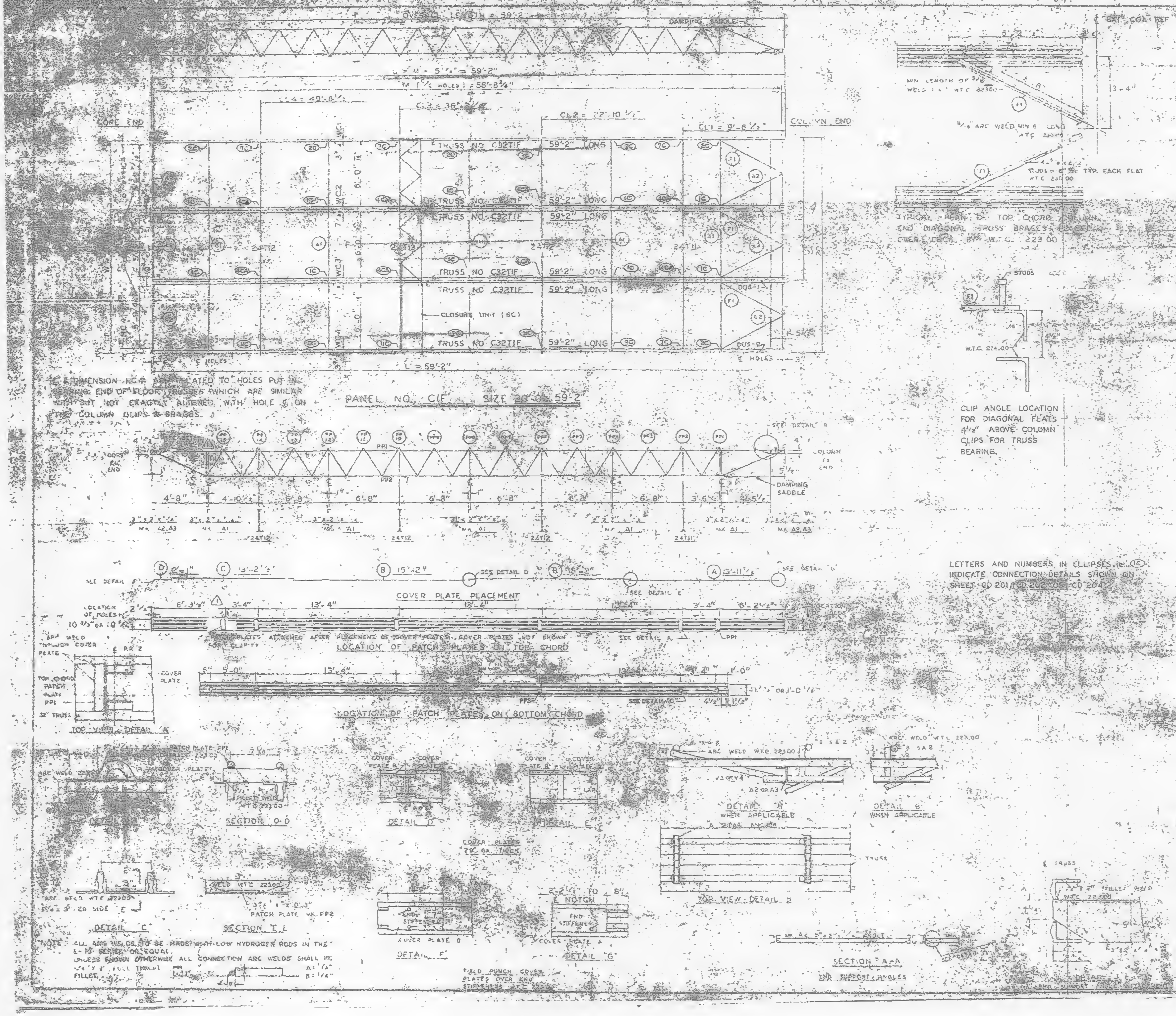
CHECKED BY J.R. DALE DATE APRIL 10, 1968

IN CHARGE OF PROD. DEV.

STEEL CO.

FABRICATION CONT. NO. 221

SHEET NO. FP CIE



℄ DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES (e.g. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 3" FULL THROAT FILLET. A = ¼" B = ¼"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1F	6	C32T1F 59'-2"	ST 3 1F
BRIDGING TRUSSES	T11	1	24T11 - 9'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3 x 2 x ¼ ANGLE	A1	5	3" x 2" x ¼" x 18'-11"	ST 403
	A2	4	3" x 2" x ¼" x 8'-11"	ST 403
	A3	2	3" x 2" x ¼" x 5'-11¾"	ST 403
DIAGONAL FLATS	F1	6	1½" x ⅜" x [illegible]	ST 402
PATCH PLATES	PP1	18	2" x ¼" x 0'-3"	ST 400
	PP2	18	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	[illegible]	9" x .0135" x 13'-11½"	ST 303
	B	[illegible]	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2½"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1½" x ¼" x 0'-6"	ST 400
8 SHEAR ANCHOR	SA2	9	8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½" x 3½" x 9/16" x [illegible]	[illegible]
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6¼"	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST. 400
CLOSURE UNIT	BC	3	2 ∠s 1½" x 1¼" x [illegible]	[illegible]
			.230 x 6'-6½"	CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST. 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

△1	6-6-69	AS NOTED	GDC
NO.	DATE	REVISION	BY

△1 REF DRWG

7-AB4-3	10-15-68
7-AB4-15 & 18	7-22 68
7-AB4-39 & 41	7-22 68
5A-124	1-6-69
7-AB3-2	[illegible]
7-AB1-2	7-22 69
7-AB2-5 & 7	7-22 68
7-AB4-42	10 15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

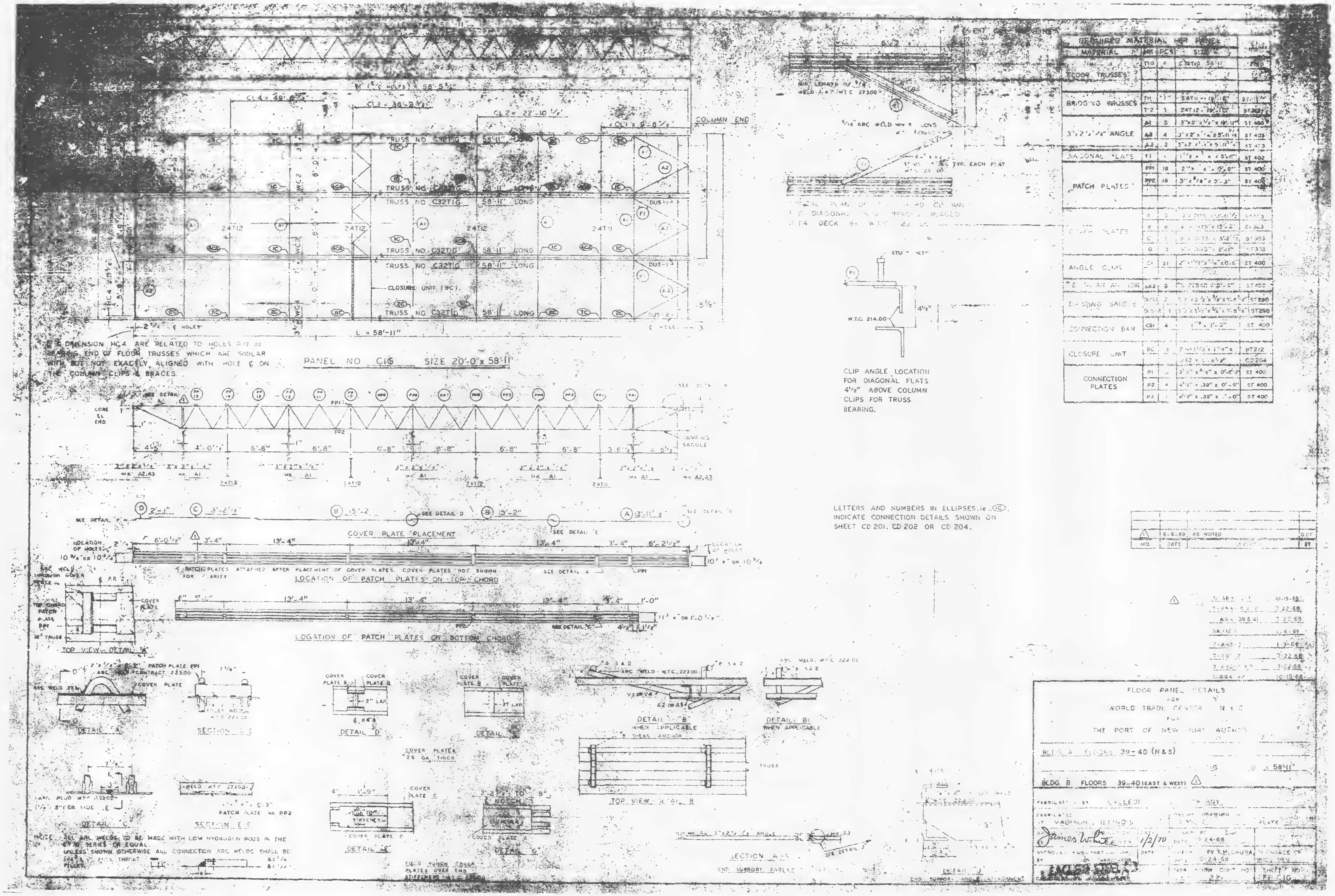
BLDG A FLOOR 47-48 (N & S), 70-71 (N)

PANEL C1F - 20'-0" x 59'-2"

BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) △1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-7
APPROVED FOR FABRICATION James White P.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE 10-24-68
APPROVED FOR FABRICATOR DATE
CHECKED BY T.M. CHURA[illegible] DATE 10-24-68
DETAILED BY [illegible]
FABRICATION CONT. NO. WRT 221



DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO C16 SIZE 20'-0" x 58'-11"

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DWG
FLOOR TRUSSES	T1G	6	C32T1G 58'-11"	[illegible]
BRIDGING TRUSSES	T1	1	24T11 - 19'-1[illegible]	[illegible]
	T2	3	24T12 - 19'-1[illegible]	BT2[illegible]
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST 400
	A2	4	3"x2"x¼"x 5'-11 5/16"	ST 403
	A3	2	3"x2"x¼"x 5'-0 3/4"	ST 403
DIAGONAL FLATS	F1	[illegible]	1½" x [illegible] x 8'-6"	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0'-9"	ST 400
	PP2	18	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	3	[illegible] .035 [illegible] 11½	ST 303
	B	6	[illegible] x .035" x 15'-2"	ST 303
	C	[illegible]	[illegible] x .035 x 3'-2½"	ST 303
	D	3	[illegible] x .035" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2"x1½"x¼"x0-6"	ST 400
⅝" SHEAR ANCHOR	SA2	9	⅝ REBAR x 2'-0"	ST 400
BEARING SADDLE	DUS-1	2	[illegible] x 3½" x ⅜" x [illegible]	ST 290
	DUS-2	1	3½" x 3½" x ⅜" x [illegible] 8⅞"	ST 298
CONNECTION BAR	CB1	4	1"φ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2" x 1½" x 1¼" x .230 x [illegible] 6½"	BT 212 CD 204
CONNECTION PLATES	P1	[illegible]	3½" x ⅜" x 0'-[illegible]	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x [illegible]-0"	ST 400

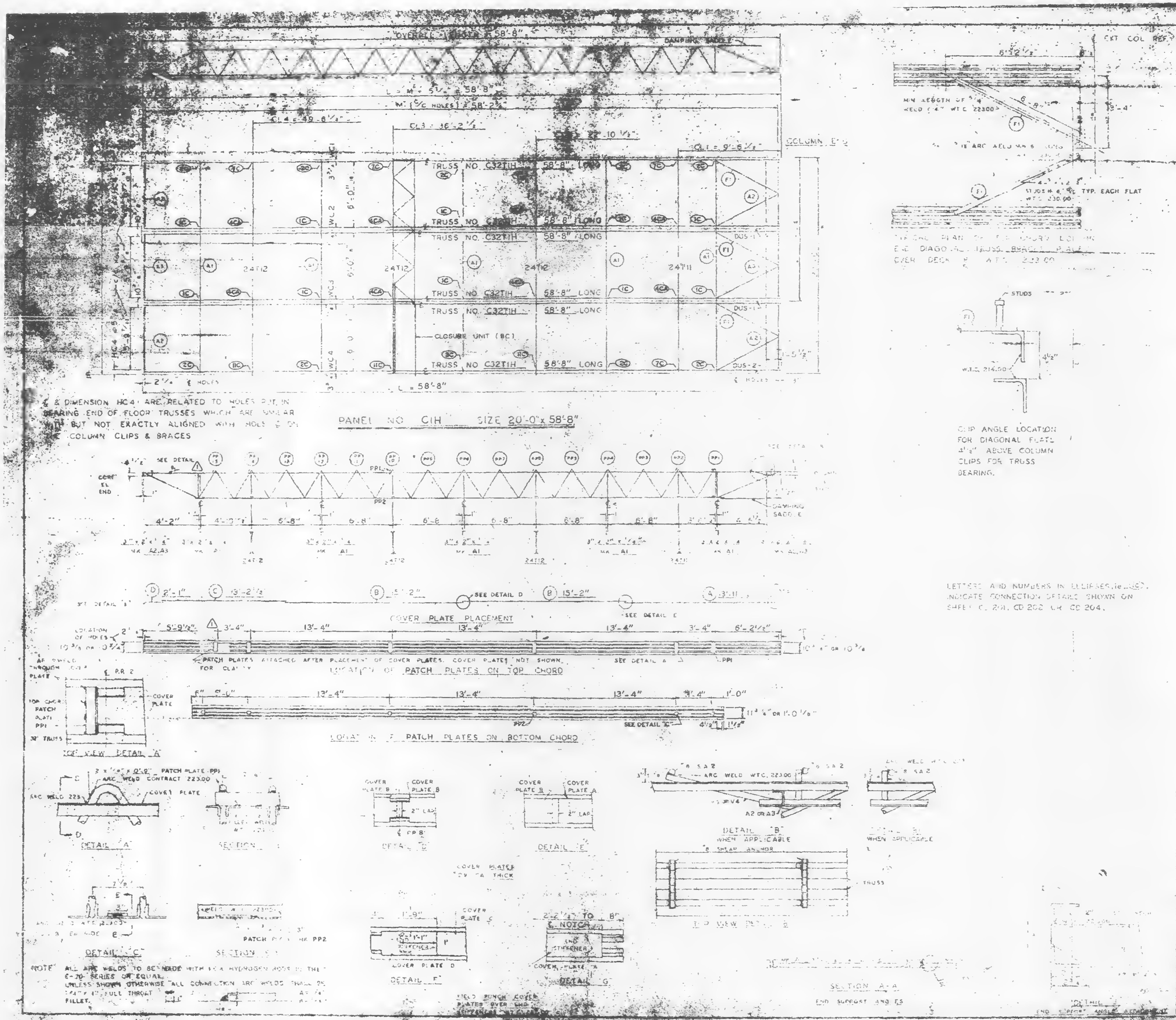
NO.	DATE	REVISION	BY
⚠1	6-6-69	AS NOTED	GDC

⚠1
7-AB[illegible] 10-15-68
7-AB4 [illegible] 7-22-68
AB[illegible] 39 & 41 7-22-68
SA-12 [illegible] 1-6-69
7-AB3 [illegible] 1-3-68
7-AB[illegible] 2 7-22-68
7-AB2 [illegible] 7-22-68
7-AB4 42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39-40 (N & S)
[illegible] G [illegible] 0 x 58'-11"
BLDG. B FLOORS 39-40 (EAST & WEST) ⚠1

FABRICATED BY [illegible] COMPANY
FABRICATED [illegible] MADISON, ILLINOIS
James White 1/2/70
DATE 10-24-68
CHECKED BY T. MACHURA
DATE 10-24-68
SHEET NO. FP C16
[illegible] 22


OVERALL LENGTH 58'-8"
DAMPING SADDLE
L = M + 5 1/2" = 58'-8"
M (5/8 HOLES) = 58'-2 1/2"
COLUMN 'E'
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1H 58'-8" LONG
CLOSURE UNIT (BC)
24T12
24T11
DUS-1
DUS-2
L = 58'-8"
& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLES ON COLUMN CLIPS & BRACES
PANEL NO. C1H SIZE 20'-0" x 58'-8"
SEE DETAIL
PP1
PP2
DAMPING SADDLE
4'-2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
SEE DETAIL D
SEE DETAIL E
COVER PLATE PLACEMENT
5'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
13'-4"
13'-4"
13'-4"
3'-4"
1'-0"
SEE DETAIL 'C'
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL 'A'
COVER PLATE
PATCH PLATE PP1
ARC WELD CONTRACT 223.00
DETAIL 'A'
SECTION
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL 'D'
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL 'E'
ARC WELD WTC 223.00
A2 OR A3
DETAIL 'B' WHEN APPLICABLE
WHEN APPLICABLE
SHEAR ANCHOR
TOP VIEW DETAIL B
TRUSS
COVER PLATES .030 THICK
DETAIL 'C'
SECTION
PATCH PLATE MK PP2
COVER PLATE D
DETAIL 'F'
C NOTCH
END STIFFENER
COVER PLATE
DETAIL 'G'
FIELD PUNCH COVER PLATES OVER END
SECTION A-A
END SUPPORT AND ES
NOTE: ALL ARC WELDS TO BE MADE WITH E-X HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FILLET
EXT. COL. REF. LINE
MIN. LENGTH OF 1/4 WELD 6" WTC 223.00
STUDS TYP. EACH FLAT WTC 230.00
TYPICAL PLAN OF TOP CHORD FOR DIAGONAL TRUSS BRACE PLATE OVER DECK WTC 223.00
STUDS
WTC 214.50
CLIP ANGLE LOCATION FOR DIAGONAL PLATE 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES (ie. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	5	C32T1H 58'-8"	ST201H
BRIDGING TRUSSES	T11	1	24T11 [illegible]	ST211
	T12	3	24T12 9'-11"	ST212
3 x 2" x 1/4" ANGLE	A1	9	3"x2"x 1/4" x 10'-0"	ST 403
	A2	4	3"x2"x 1/4" x 5'-11"	ST 403
	A3	2	3"x2"x 1/4" x 5'-10 3/4"	ST 403
DIAGONAL PLATE	F1	6	1 1/2" x 1/4" x [illegible]	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x [illegible]	ST 400
	PP2	18	3" x [illegible]	ST 400
COVER PLATES	A	3	[illegible] .035"	ST 303
	B	[illegible]	[illegible] .035" x [illegible]	ST 303
	[illegible]	[illegible]	[illegible]	ST 303
	[illegible]	[illegible]	.035" x 2'-1"	ST 303
ANGLE CLIPS	[illegible]	[illegible]	[illegible]	ST 400
[illegible]	SA2	9	[illegible] x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	2	[illegible] x 3'-6 7/8"	ST 298
	DUS-2	[illegible]	[illegible] x 3'-6 7/8"	ST 298
CONNECTION BAR	CB	4	[illegible] 1'-3"	ST 400
CLOSURE UNIT	B	[illegible]	[illegible]	ST 212
			230 x 5'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	1	[illegible] x .39" x 0'-9"	ST 400
	P3	[illegible]	[illegible] x .39" x 1'-[illegible]	ST 400

NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	GDC

10-15-68
7-22-68
39 & 41 7-22-68
1-6-69
7-22-68
7-22-68
10-15-68

79-80(N)

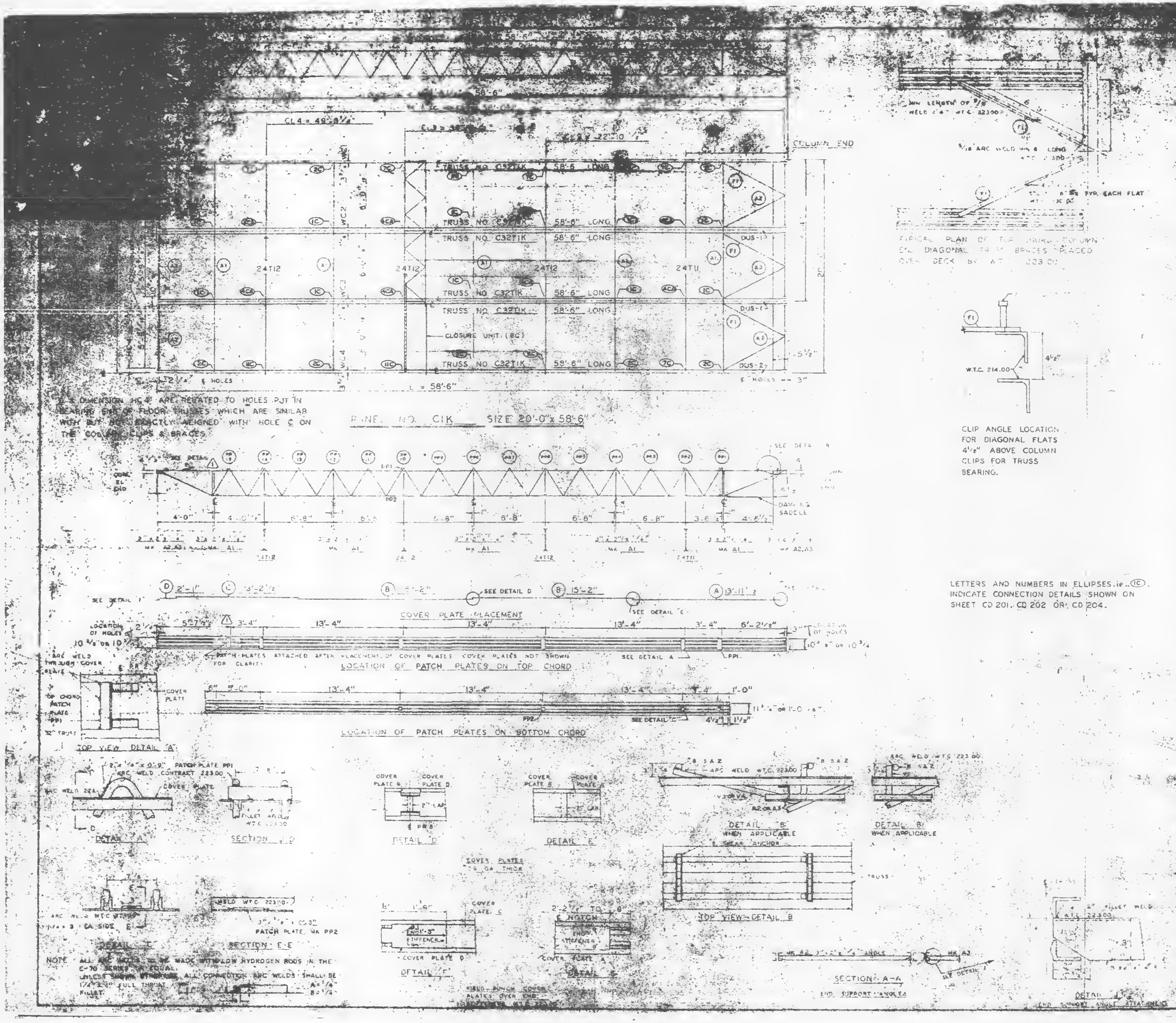
[illegible] 58'-8"

BLDG. B FLOORS 79-80 (WEST) 1

7-22-68

James White 1/2/70

DRAWN BY [illegible]
DATE 10-24-68
CHECKED BY T.M. CHUPA
DATE 10-24-69
IN CHARGE OF PROD.
DETAILED BY [illegible]
FABRICATION CONT. NO.
WTC 221
C1H



DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS OTHERWISE NOTED, ALL CONNECTION ARC WELDS SHALL BE 1/4" x 2" FULL THROAT FILLET.

[illegible]	[illegible]	[illegible]	[illegible]	REF. DWG.
FLOOR TRUSSES	C1K	6	C32T1K 58'-6"	[illegible]
BRIDGING TRUSSES	T11	1	24T11 - 19'-10"	[illegible]
	T12	3	24T12 - 19'-11"	ST 212
3 x 2" x 1/4" ANGLE	A1	[illegible]	3"x2"x1/4"x[illegible]	ST 403
	A2	4	3"x2"x1/4"x 9'-11 5/16	ST 403
	A3	2	3"x2"x1/4"x 5'-11 1/4	ST 403
DIAGONAL FLATS	F1	6	[illegible]	[illegible]
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x [illegible]" x 0'-3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	2-2" x 3 1/2" x 3/4" x 3'-6 7/8"	[illegible]
	DUS-2	1	2-2" x 3 1/2" x 3/4" x 3'-6 7/8"	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-4 x 1 1/2" x 1 1/4" x [illegible]	ST 212
			220 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-6-69	AS NOTED	GDC

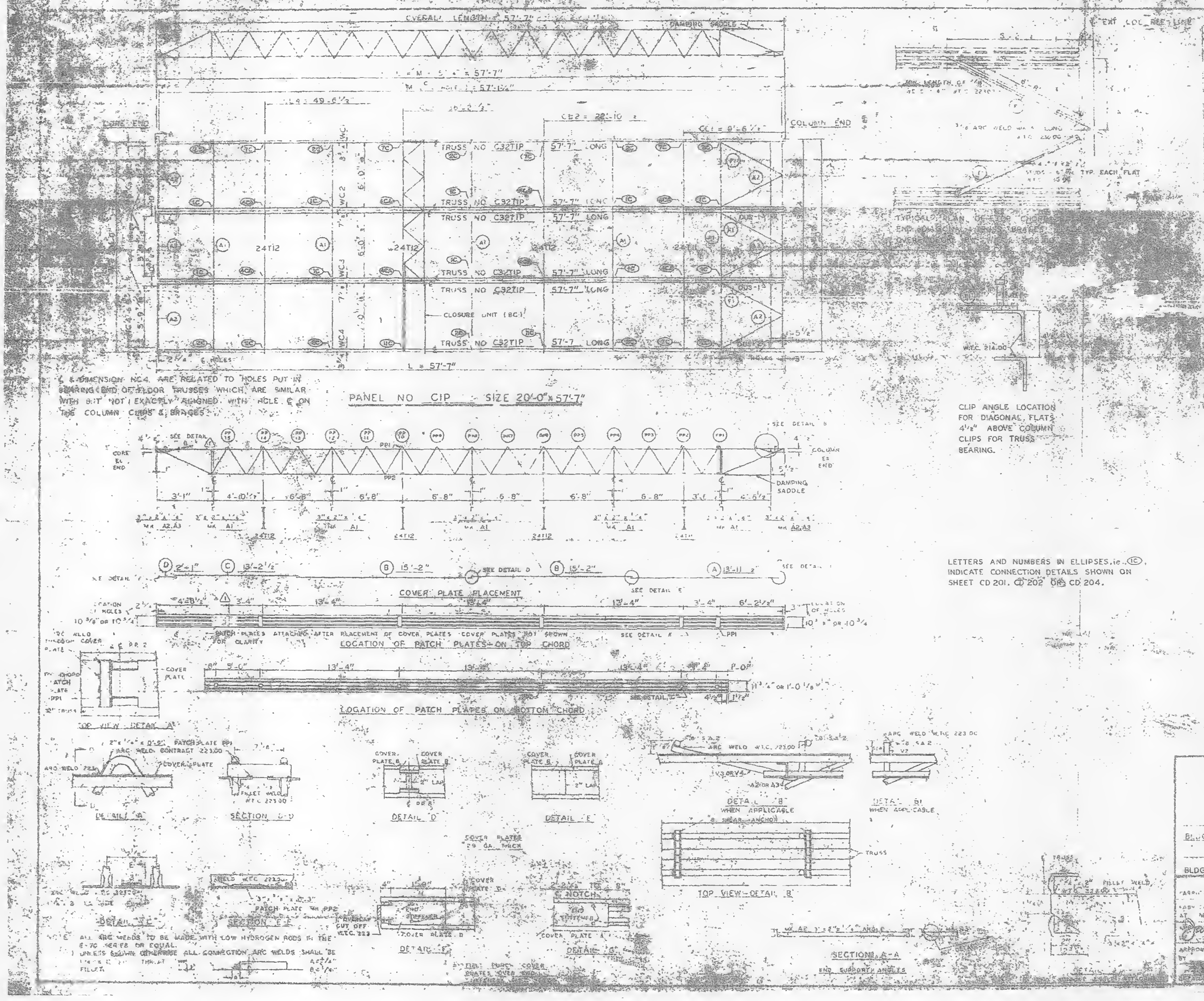
⚠1 REF. DRWG.

7-AB4-2	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-39 & 40	7-22-68
SA-224	1-6-69
7-AB3-2	1-3-69
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45(S), 46(N & S)
PANEL C1K - [illegible] x 58'-6"
BLDG. B FLOORS 45 (EAST) 46 (EAST & WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB4-2
APPROVED FOR FABRICATION BY James White DATE 1/9/70
DRAWN BY [illegible] DATE 10-24-68
CHECKED BY T.M. CHURA DATE 10-24-68
APPROVED FOR FABRICATION BY DATE
FABRICATION CONT. NO. W.T.C. 221
DETAILED BY LACLEDE STEEL CO.
SHEET C1K


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T1P 57'-7" LONG
24T12
CLOSURE UNIT (8C)
L = 57'-7"
PANEL NO C1P SIZE 20'-0" x 57'-7"
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TYPICAL PLAN OF TOP CHORD END DIAGONAL BRACES
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, i.e. 1C, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW-DETAIL B
DETAIL C
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLES
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1P	6	C32T1P 57'-7"	[illegible]
DAMPING TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
3½ x ¼ ANGLE	A1	5	[illegible]	[illegible]
	A2	6	[illegible]	[illegible]
	A3	2	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	5	[illegible]	[illegible]
PATCH PLATES	PP1	18	[illegible]	[illegible]
	PP2	18	[illegible]	[illegible]
COVER PLATES	A	3	9⅞ .0195 x 13'-11⅞	ST 403
	B	6	9⅞ .0195 x 15'-2	ST 403
	C	3	9⅞ .0195 x 13'-2½	ST 365
ANGLE CLIPS	C1	2	2 x 1½ x ¼ [illegible]	ST 400
SHEAR ANCHOR	SA2	9	#3 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3½" x 3½ x ⅜" x 3'-6⅞"	ST 298
	DUS2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	8C	3	2 [illegible] 1½ x 1½ x	ST 212
			230 x 5'-6½"	CD 304
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

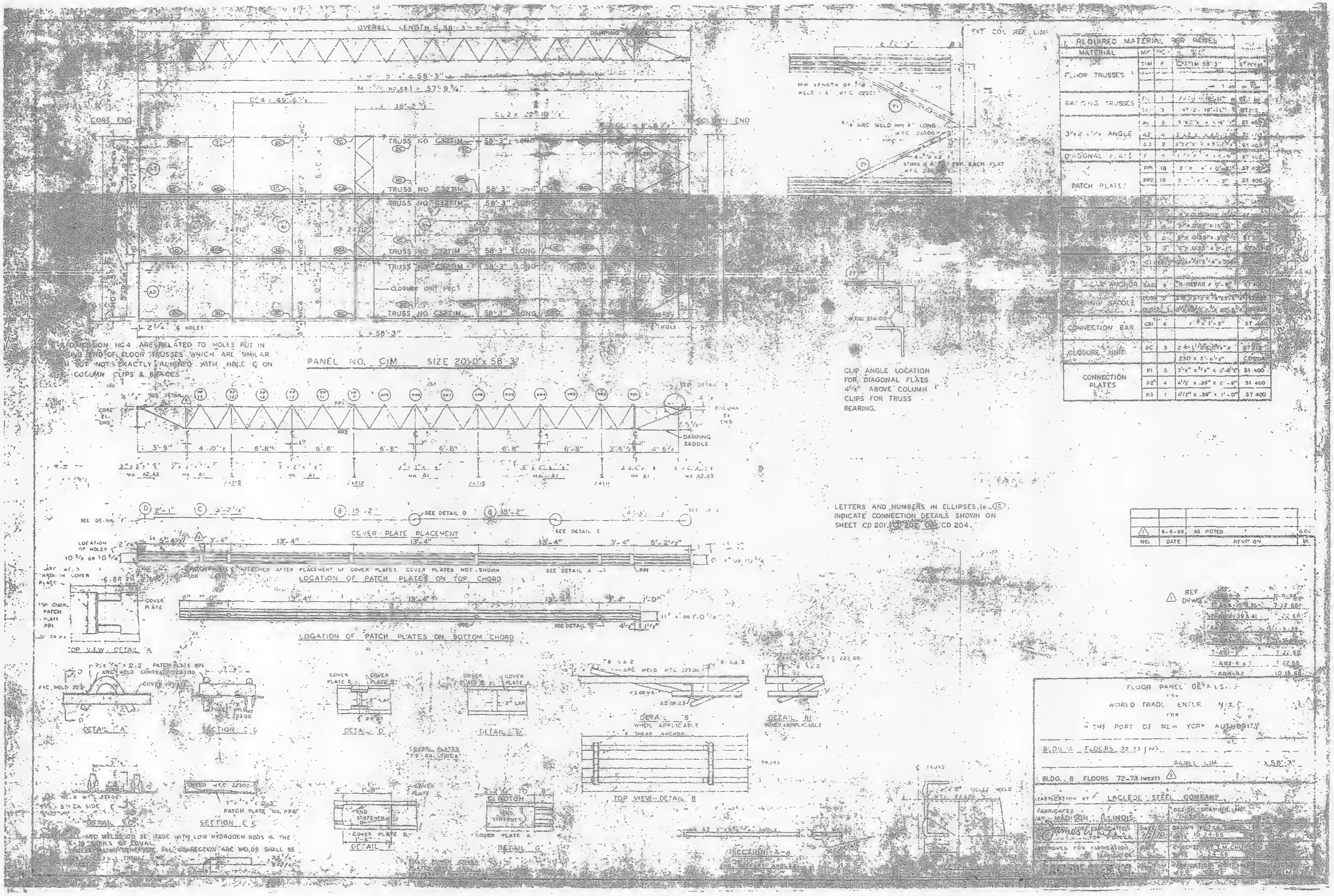
NO.	DATE	REVISION
⚠1	6-6-69	AS NOTED

⚠1 REF DRWG
7-AB4-5 ... 68
7-AB4 ... 7-2-68
7-AB4 39 & 41 ...
SA 12 ... 6-68
7-AB ... 68
7-AB ... 68
7-AB ...
7-AB4-42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 74 (N)
BLDG. B FLOORS 74 (WEST) ⚠1

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION James White DATE 1/2/70
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DESIGN DRAWING NO. 7-AB5
DRAWN BY DATE 4-68
CHECKED BY T.M. CHUBA DATE 4-68
W.T.C. 221



DIMENSION HC4 ARE RELATED TO HOLES PUT IN ... END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE C ON COLUMN CLIPS & BRACES

PANEL NO. C1M SIZE 20'-0" x 58'-3"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES (e.g. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ... FULL THROAT

REQUIRED MATERIAL FOR PANEL

MATERIAL	MK	PC	SIZE	[illegible]
FLOOR TRUSSES	TIM	6	C32TIM 58'-3"	ST 204M
BRIDGING TRUSSES	[illegible]	1	[illegible] 19'-11"	ST 212
	T1	3	4T-2-18'-11"	ST 212
3"x2"x1/4" ANGLE	A1	6	3"x2"x1/4"x 4'-1"	ST 408
	A2	4	3"x2"x1/4"x [illegible]	ST 408
	A3	2	3"x2"x1/4" x 5'-1 3/4"	ST 408
DIAGONAL FLATS	F	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	18	2" x 4" x 0'-8"	ST 400
	PP2	18	3" x [illegible] x [illegible] -3"	ST 400
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	9" x 0.135" x 15'-2"	[illegible]
	B	6	9" x 0.135" x 15'-2"	[illegible]
	C	3	9" x 0.135" x 3'-2 1/2"	ST [illegible]
	D	3	9" x 0.135" x 2'-1"	ST 303
ANGLE CLIPS	C1	[illegible]	[illegible] x 1/4" x [illegible]	[illegible]
SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	[illegible]	ST [illegible]
	DUS2	1	[illegible]	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2" x [illegible] x	ST 212
			230 x 3'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-5 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	
1	6-6-69	AS NOTED	GDL

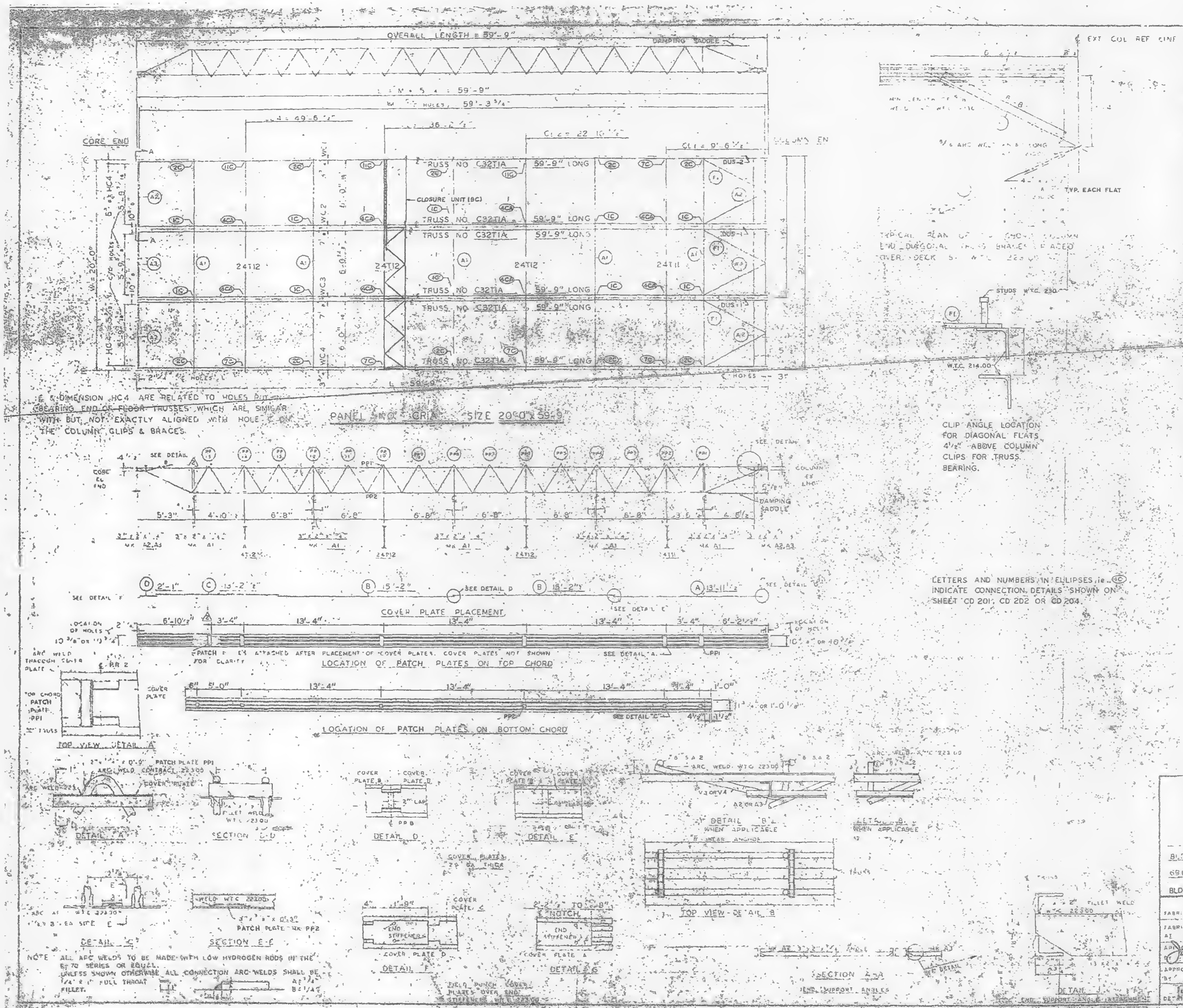
1 REF DRWG.

[illegible]	10-6-68
7-AB4-15 & 16	7-22-68
7-[illegible]-39 & 41	7-22-68
SA[illegible]	11-6-69
7-AB3-[illegible]	[illegible]
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL C1M x 58'-3"
BLDG. B FLOORS 72-73 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
James White FOR FABRICATION
DATE 7/2/70
DESIGN DRAWING NO. [illegible]
DRAWN BY [illegible] DATE 10-24-68
APPROVED FOR FABRICATION FOR FABRICATOR
CHECKED BY T. M. CHURA[illegible] DATE 10-24-68
FABRICATION [illegible] NO.



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 3/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TA	6	C32T1A - 59'-8"	ST 204A
BRIDGING TRUSSES	T11	[illegible]	24T11 - [illegible]	[illegible]
	T12	3	24T12 - 19'-11"	BT 212
3 x 2 x ... ANGLE	A1	3	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 3/8"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	5	[illegible] x 6'-9"	ST 402
PATCH PLATES	PP1	18	2 x 4 x 0'-9"	ST 400
	PP2	18	[illegible] x 3"	ST 400
COVER PLATES	A	3	9" x .0135 x 3'-11 1/2"	ST 303
	B	6	9" x .0135" x 5'-2"	ST 303
	C	3	9" x .0135" x 3'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1" x 2" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1 1/2" x 1 1/4" x	BT 212
			230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
△2	5-6-69	AS NOTED	G.D.C.
△1	7-17-68	GENERAL	T.M.C.

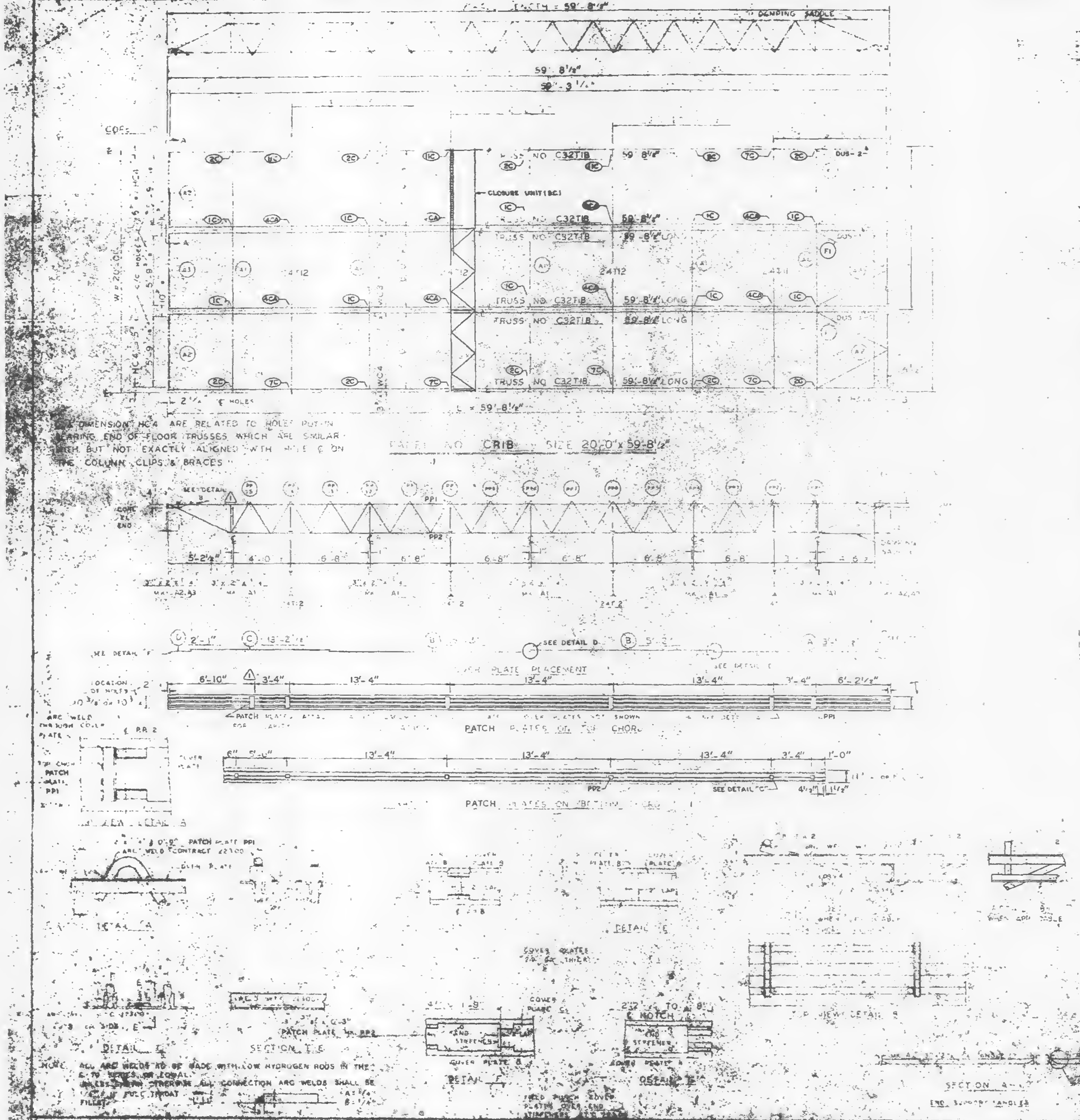
△2 REF. D-WG

7-AB4-3	10-15-68
AB4 ... 4 ...	7-22-68
7-AB4-41	7-22-68
3A-1,2,4	1-6-69
7-AB3-2	[illegible]-3-68
7-AB1-2	7-22-68
7-AB2 6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

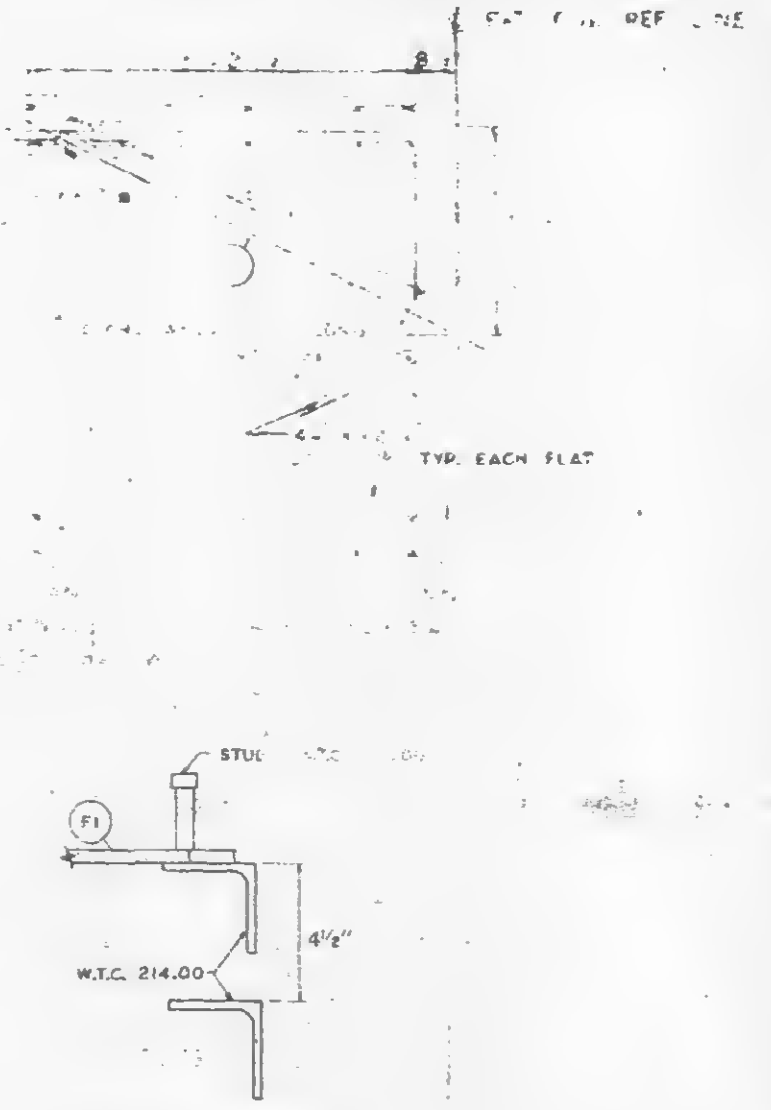
BLDG. A FLOORS 14-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68, 69 (NORTH)
PANEL CRIA - 20'-0" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-[illegible] △2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8 4-1-68 PLATS
APPROVED FOR FABRICATION BY James White ... DATE 1/2/70
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY ... FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP CRIA



DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET.



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	[illegible]	PCS.	SIZE	
[illegible]		8	[illegible] - 59'-8 1/2"	[illegible]
[illegible]	T2	3	24T12 [illegible]	BT212
[illegible] ANGLE	A1	5	[illegible] 9'-11"	BT 403
	A2	4	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	[illegible] 2'-0 1/2"	ST303
	B	6	[illegible]	ST303
	C	3	[illegible] 2'-2 1/2"	ST303
	D	3	[illegible] 2'-1"	ST303
ANGLE CLIPS	[illegible]	21	[illegible] x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3-6 7/8"	ST298
	DUS-2	[illegible]	3 1/2" x 3 1/2" x 3/8" x 3-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 4 x 1 1/2" x 1 1/4" x	BT212
			.230 x 6'-6 1/2"	CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-9-69	AS NOTED	G.D.C.

⚠1

[illegible] 10-15-68
[illegible] 15,16 7-22-68
AB4 41 7-22-68
[illegible] 1-6-69
7-AB3-[illegible] [illegible]
7-AB1-2 7-22-68
AB2-6 & 7 7-22-68
7-AB4-42 10-15-68

[illegible] TAILS

83-91 & 93-106 (N)

PANEL CRIB [illegible] x 59'-8 1/2"

BLDG. B FLOORS 83-91 & 93-106 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-8

APPROVED FOR FABRICATION James White DATE 1/2/70

DRAWN BY [illegible] DATE OCT 23, 1968

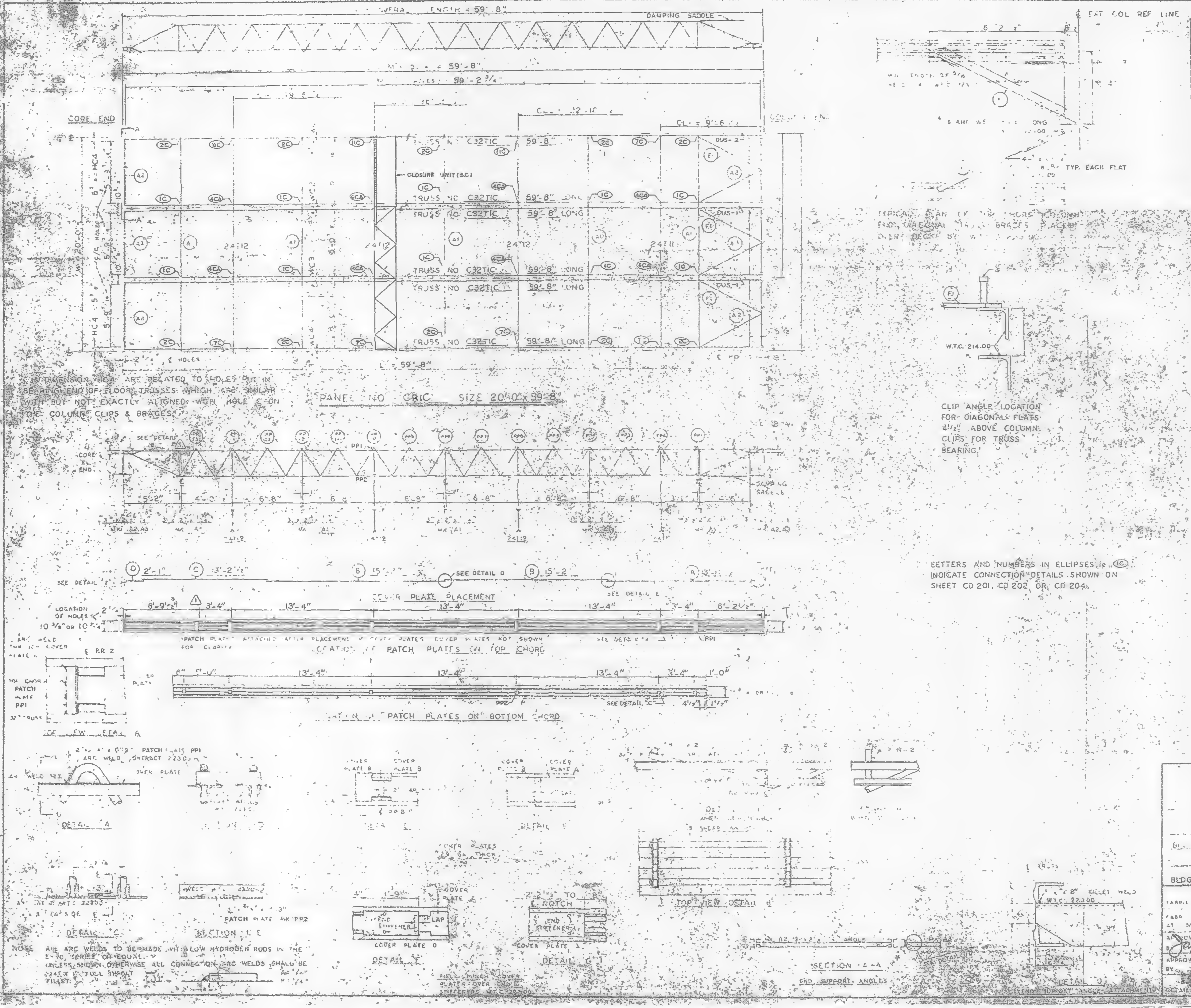
APPROVED FOR FABRICATION BY [illegible] DATE

CHECKED BY T.M. CHURMAN DATE OCT 23, 1968

DETAILED [illegible]

FABRICATION CONT. NO. W.T.C. [illegible]

SHEET [illegible] CRIB



1) DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS.	SIZE	
FLOOR TRUSSES	C	[illegible]	C32T1C - 59'-8"	ST201C
BRIDGING TRUSSES	[illegible]	1	24T[illegible] 9[illegible]	[illegible]
	[illegible]	3	24T12 - 19'-11"	BT212
3"×2"×1/4" ANGLE	A1	5	3"×2"×1/4"×19'-11"	ST 403
	A2	4	3"×2"×1/4"×5'-11 9/16"	ST 403
	A3	2	3"×2"×1/4"×5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	5	[illegible]×6'-6"	ST 402
PATCH PLATES	PP1	18	2"×[illegible]5"	ST 400
	PP2	18	3"×[illegible]3"	ST 400
COVER PLATES	A	3	9"×.035"×13'-11 1/2"	ST303
	B	6	9"×.035"×3'-2"	ST303
	C	3	9"×.0135"×13'-2 1/2"	ST303
	D	3	9"×.035"×2'-1"	ST303
ANGLE CLIPS	C1	21	2"×1 1/2"×1/4"×0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR × 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"×3 1/2"×3/8"×3'-6 7/8"	ST298
	DUS 2	1	3 1/2"×3 1/2"×3/8"×3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 [illegible]×1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2"×1 1/4"× .230×6'-6 1/2"	BT212 CD204
CONNECTION PLATES	P1	5	3 1/2"×3/8"×0'-6 1/2"	ST 400
	P2	4	4 1/2"×.39"×0'-9"	ST 400
	P3	1	4 1/2"×.39"×1'-0"	ST 400

NO.	DATE	REVISION	BY
△1	6-9-69	AS NOTED	G.D.C.

△1 REF. DRWGS

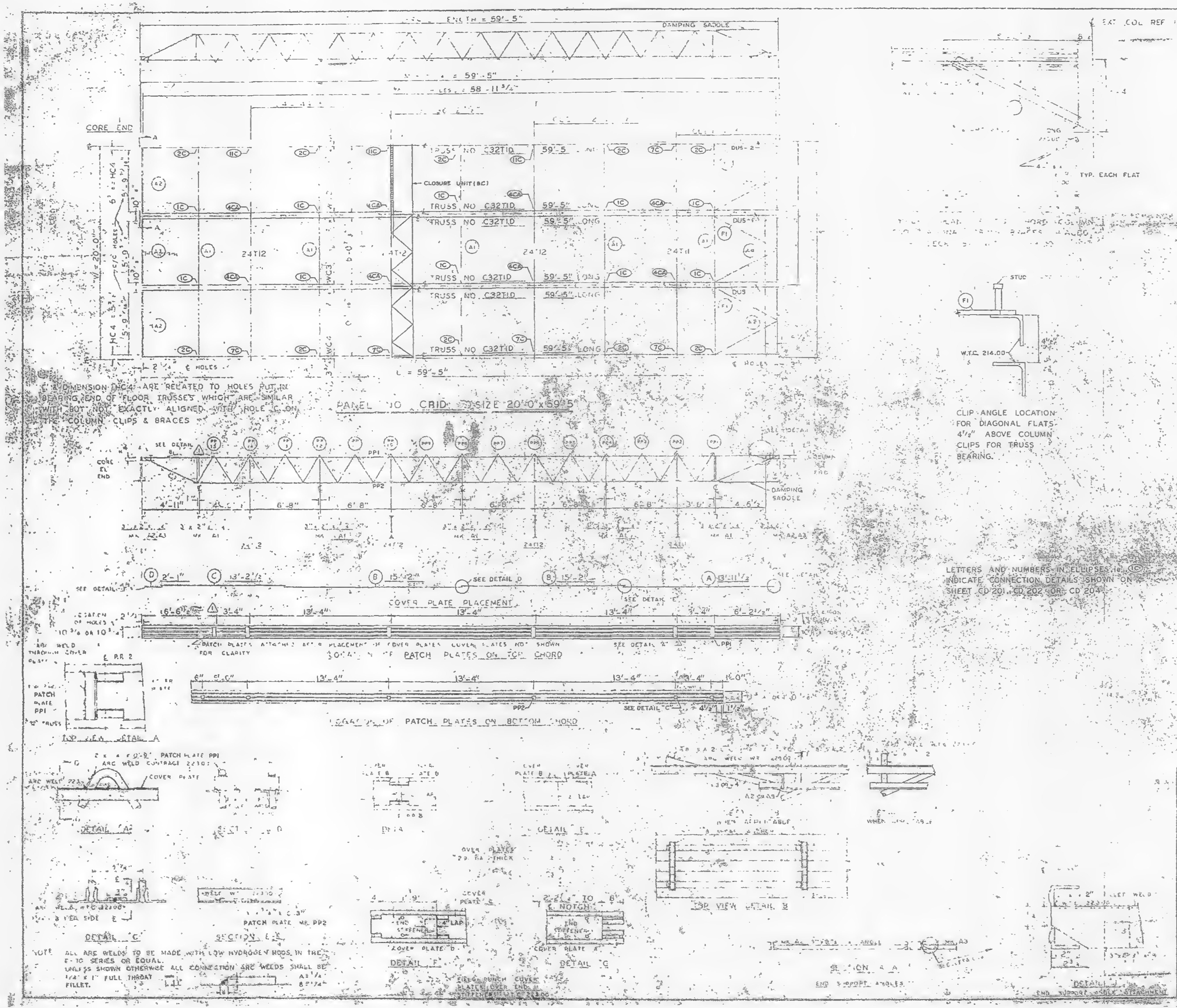
7-AB4-3	10-15-68
7-AB4-15,16 & 39	7-22-68
7-AB4-41	7-22-68
5A-12.4	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

[illegible] DETAILS
FOR
[illegible]
FOR
THE [illegible] NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-66, 68-74, 79-91 & 93-106 (S)
PANEL C81C 20'-0" x 59'-8"
BLDG. B FLOORS 49-58, 60-74, 79-91 & 93-106 (EAST) △1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-8	PLATE
APPROVED FOR FABRICATION BY James White P.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE OCT 23, 1968	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE OCT 23, 1968	IN CHARGE OF PRODUCTION
DETAILED BY G.C. WEBER		FABRICATION CONT. NO. W.T.C. [illegible]	SHEET NO. C81C



DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C.ON THE COLUMN CLIPS & BRACES

PATCH PLATES ATTACHED BEFORE PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

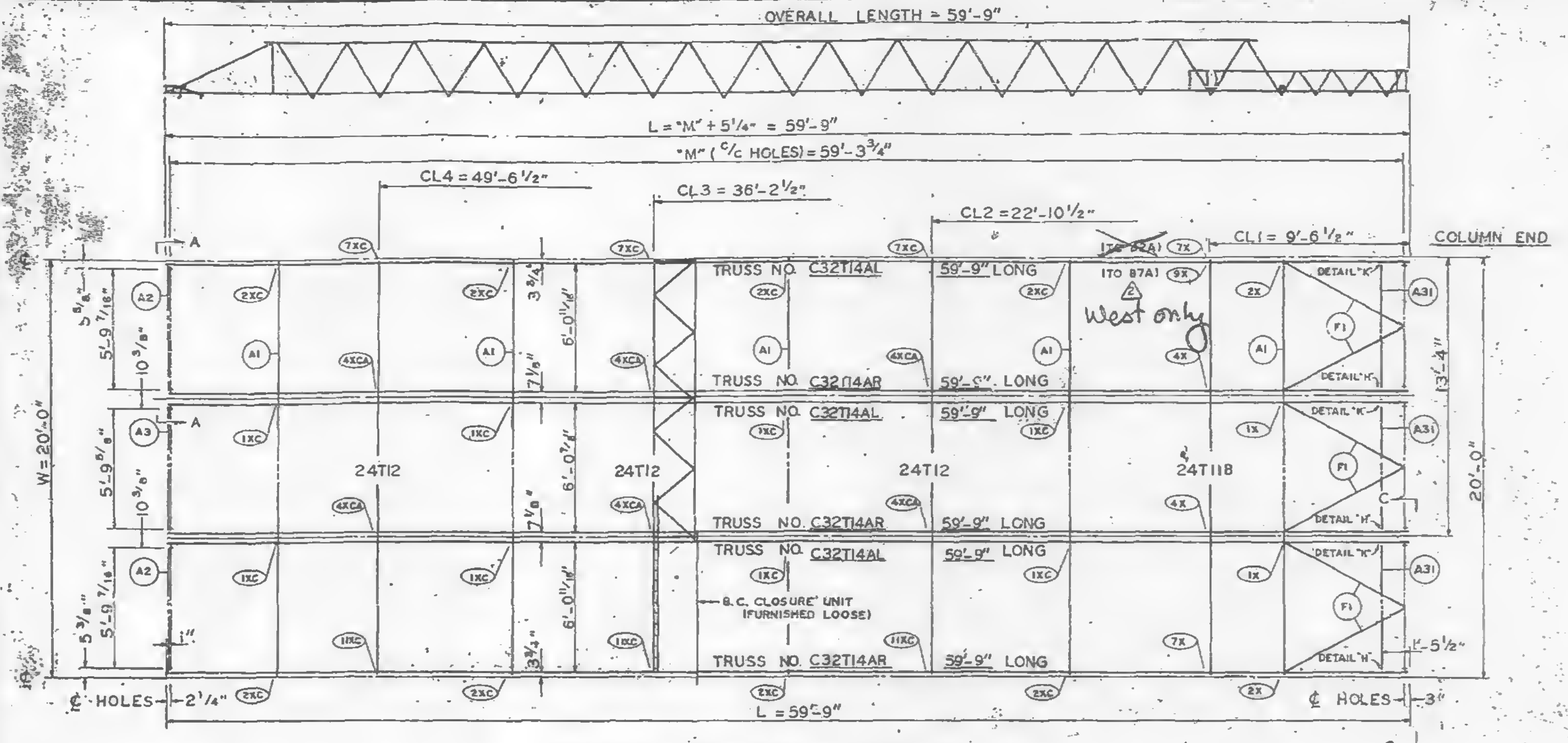
REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	5	C32T1D - 59'-5"	ST2010
[illegible] TRUSSES	[illegible]	1	24T[illegible] - 19'-11"	BT2[illegible]
	T12	3	24T12 - 19'-11"	BT212
[illegible] ANGLE	A1	2	3 x 2 x 1/4 x 19'-11"	ST 403
	A2	4	3 x 2" x 1/4 x 5'-11 1/16	ST 403
	A3	2	3"x2" x 1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F	5	[illegible] 2 x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	[illegible] 0'-3"	ST 400
COVER PLATES	A	3	9"x.0135 x 13'-11 1/2	ST303
	B	6	9 x .0135 x 15'-2	ST303
	C	3	9"x.0135"x13'-2 1/2	ST303
	D	3	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2 x 3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x3'-8 7/8"	ST298
CONNECTION BAR	CB1	4	1"# x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1 1/2"x 1 1/4" x .230 x 6'-6 1/2"	BT212 CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	O.D.C.

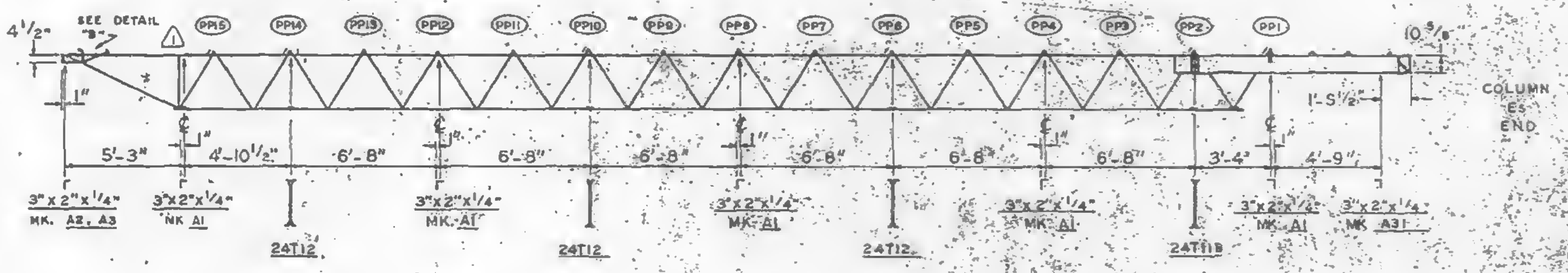
⚠ REF DWG [illegible] AB4 [illegible] 10-15-68
AB4 15,16 & 39 7-22-68
AB4 41 7-22-68
A 12 4 [illegible]-6-69
AB3 [illegible]
AB1 [illegible] 7-22-68
AB2 [illegible] 7-22-68
AB4 4[illegible] 10-15-68

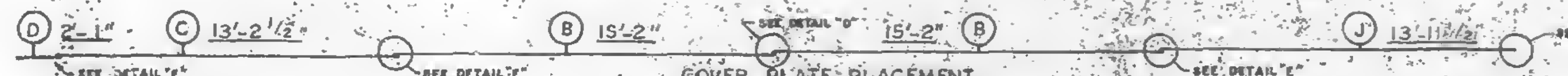
[illegible] 81-82 (N)
PANEL GRID [illegible] 59'-5"
BLDG. B FLOORS 81-82 (WEST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8
APPROVED FOR FABRICATION BY James White [illegible] DATE 1/2/70
DRAWN BY [illegible] DATE OCT 23, 1968
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
CHECKED BY T.M.CHURA DATE OCT 23, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. [illegible] 221
SHEET NO. FD GRID

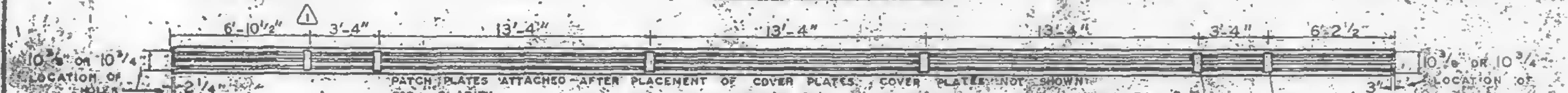


PANEL NO. C2A SIZE 20' x 59'-9"



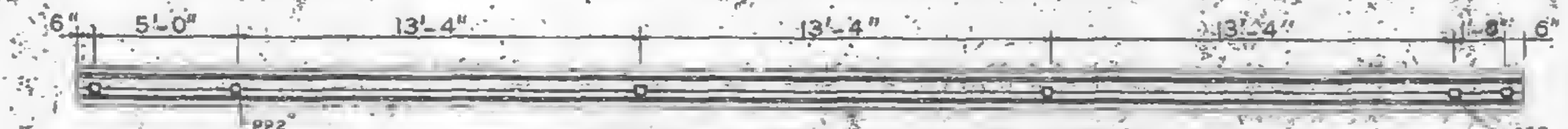


COVER PLATE PLACEMENT

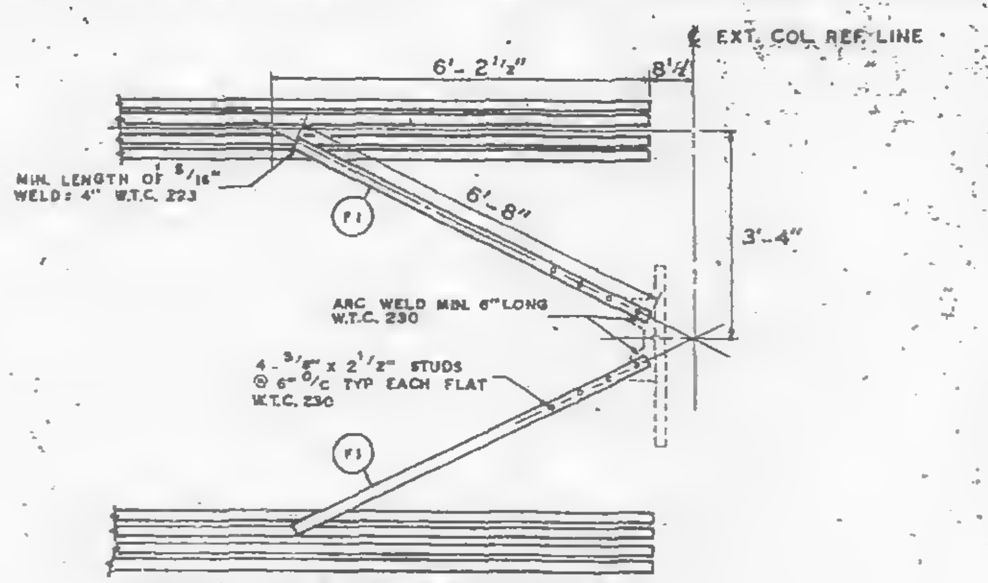


PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

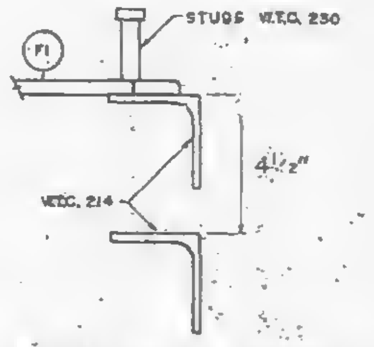
LOCATION OF PATCH PLATES ON TOP CHORD



LOCATION OF PATCH PLATES ON BOTTOM CHORD


℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
MIN. LENGTH OF 5/16" WELD: 4" W.T.C. 223
F1
6'-8"
3'-4"
ARC WELD MIN. 6" LONG W.T.C. 230
4-3/8" x 2 1/2" STUDS @ 6" c/c TYP EACH FLAT W.T.C. 230

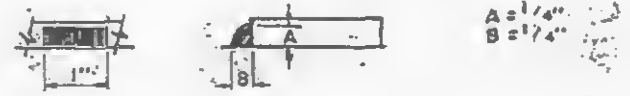
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

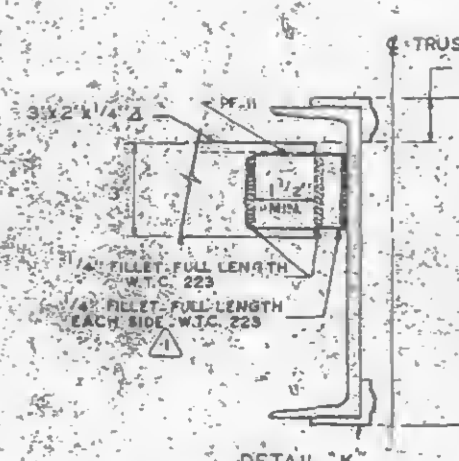


CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

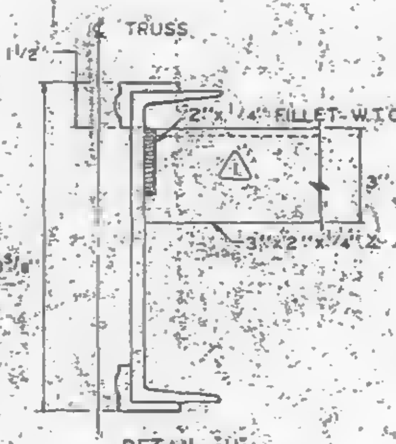
REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	ST 211B
	T12	3	24T12 x 19'-11"	ST 212
CLOSURE UNIT	BC	3	1 1/4" □ 6'-6 1/2" TUBE	ST 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4" x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x 1 1/2"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



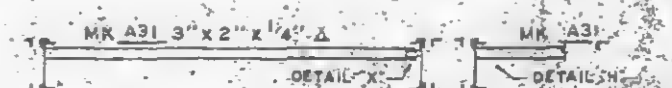

℄ TRUSS
1 1/2"
PF-11
3"x2"x1/4" ∠
3"
1 1/2" MIN.
1/4" FILLET FULL LENGTH W.T.C. 223
1/4" FILLET FULL LENGTH EACH SIDE W.T.C. 223
1
10 5/8"

DETAIL "K"
END SUPPORT ANGLE ATTACHMENT



DETAIL "H"
END SUPPORT ANGLE ATTACHMENT

NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

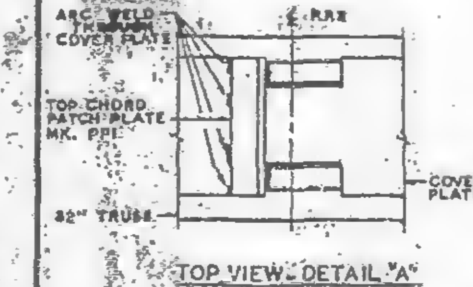


SECTION C-C
END SUPPORT ANGLE

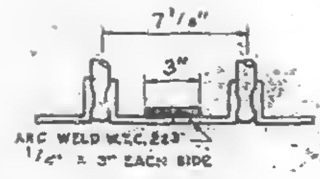
SKILLING · HELLE
CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 6/6/69 By SK

REF DRWG.

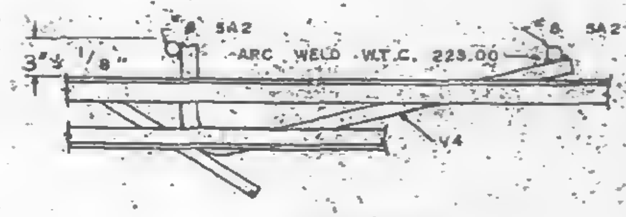
7-A83-28	10-4-68
7-A84-28	7-22-68
7-A81-13	10-4-68
7-A82-7	7-22-68
7-A82-15	10-4-68



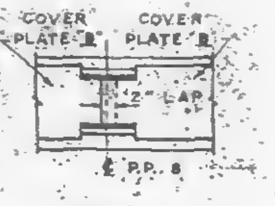
TOP VIEW DETAIL "A"



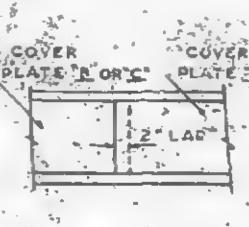
DETAIL "C"



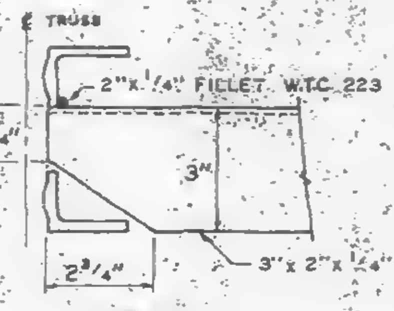
DETAIL "B"



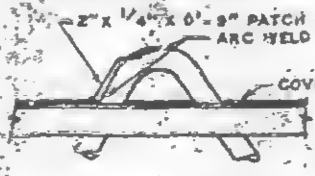
DETAIL "D"



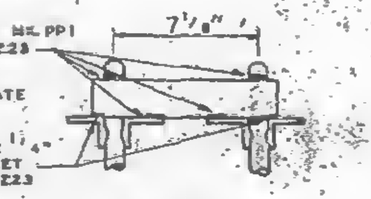
DETAIL "E"



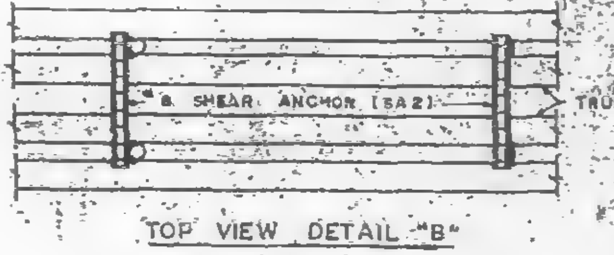
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT



DETAIL "A"

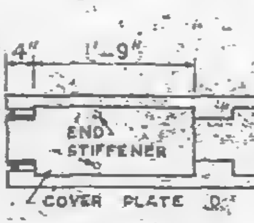


SECTION B-B



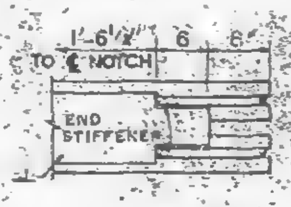
TOP VIEW DETAIL "B"

COVER PLATES 29 GA. THICK

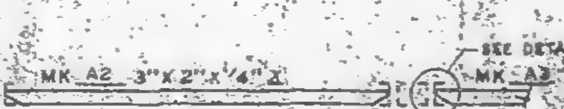


DETAIL "F"

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00



DETAIL "G"



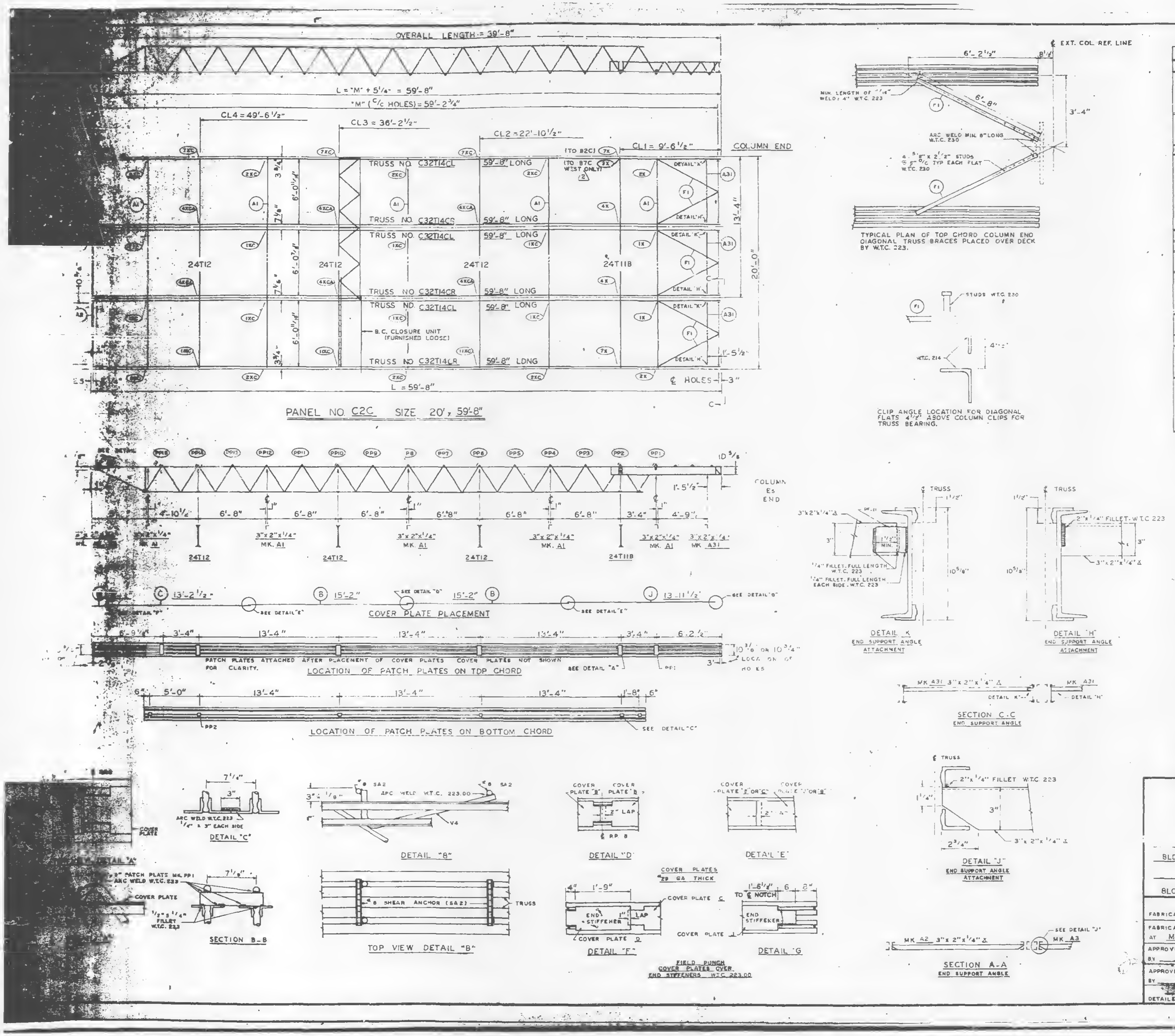
SECTION A-A
END SUPPORT ANGLE

FLOOR-PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH) 1
PANEL C2A - 20' x 59'-9"
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A83-28	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE DEC. 5, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHUKA DATE DEC. 5, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP C2A


OVERALL LENGTH = 39'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
(TO B2C) (TO B7C WEST ONLY)
24T12
24T11B
DETAIL "K"
DETAIL "H"
20'-0"
13'-4"
6'-0 1/4"
B.C. CLOSURE UNIT (FURNISHED LOOSE)
¢ HOLES
L = 59'-8"
PANEL NO. C2C SIZE 20', 59'-8"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
1'-5 1/2"
COLUMN END
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
13'-2 1/2"
15'-2"
13'-11 1/2"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
LOCATION OF PATCH PLATES ON TOP CHORD
10 3/8" OR 10 3/4" LOCATION OF HOLES
5'-0"
13'-4"
1'-8"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
¢ EXT. COL. REF. LINE
6'-2 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 1/4" WELD: 4" W.T.C. 223
ARC WELD MIN. 8" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
¢ TRUSS
3"x2"x1/4" ∠
1/4" FILLET FULL LENGTH W.T.C. 223
1/4" FILLET FULL LENGTH EACH SIDE W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET W.T.C. 223
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
SECTION C-C END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
3"x2"x1/4" ∠
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
MK A3
SEE DETAIL "J"
SECTION A-A END SUPPORT ANGLE
7 1/4"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
ARC WELD W.T.C. 223.00
#8 SA2
DETAIL "B"
COVER PLATE "B" COVER PLATE "B"
2" LAP
DETAIL "D"
COVER PLATE "J" OR "C" COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATE
DETAIL "A"
3/8" PATCH PLATE MK. PP1 ARC WELD W.T.C. 223
1/2" x 1 1/4" FILLET W.T.C. 223
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATES 22 GA THICK
1'-9"
END STIFFENER
LAP
COVER PLATE C
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
TO ¢ NOTCH
1'-6 1/4"
END STIFFENER
DETAIL "G"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" O 6'-6 1/2" TUBE	BT 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	8	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x 1/4" x 0'-9"	ST 400
	PP2	18	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9"x .0135" x 15'-2"	ST 303
	C	3	9"x .0135" x 13'-2 1/2"	ST 303
	D	3	9"x .0135" x 2'-1"	ST 303
	J	3	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x 1 1/2"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3"x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

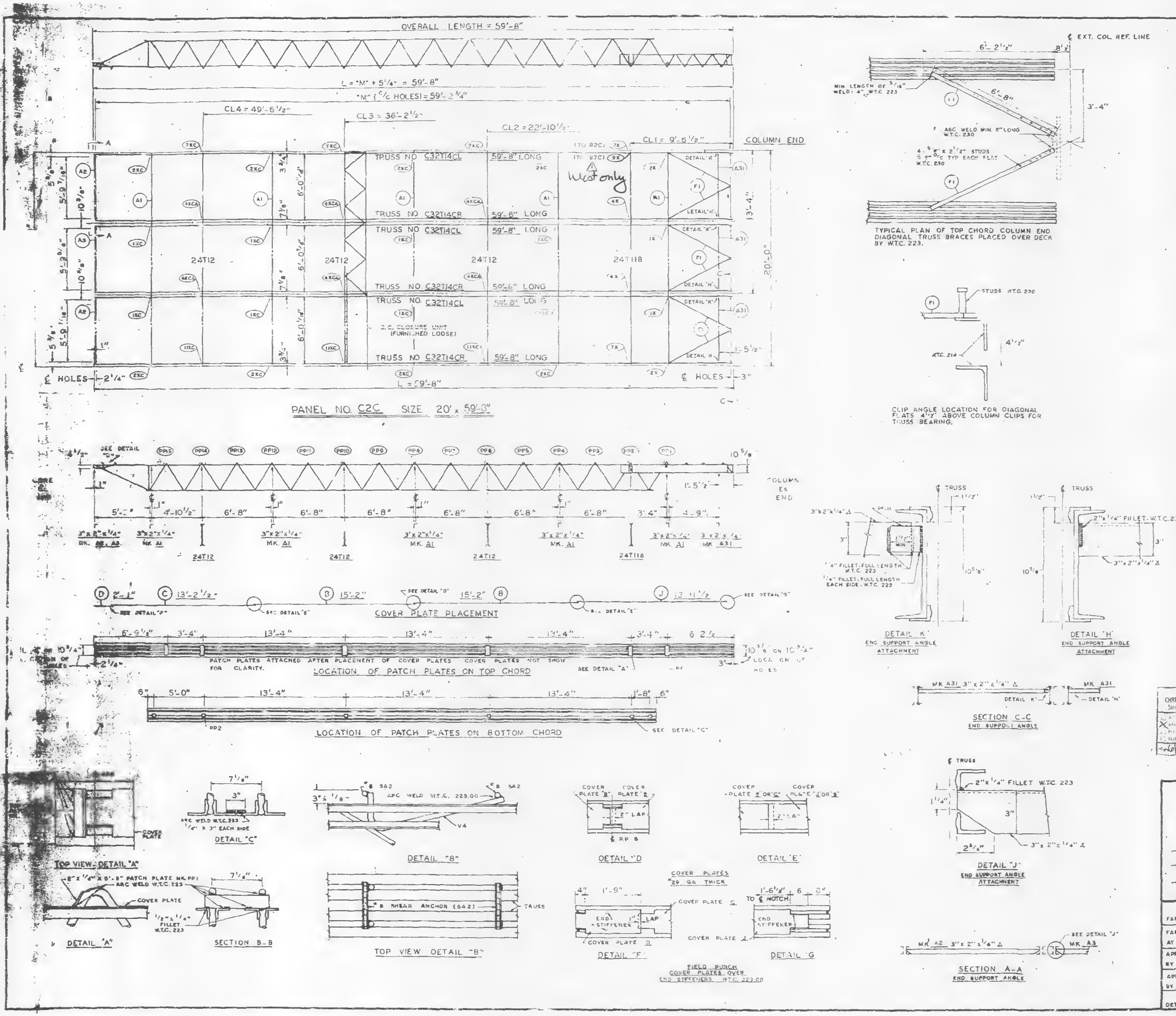
NO.	DATE	REVISION	BY.
2	6-13-69	AS NOTED	G.D.C.
1	5-12-69	AS NOTED	G.D.C.

REF. DRWG.		
	7-AB3-28	10-4-68
	7-AB4-28	7-22-68
	7-AB1-13	10-4-68
	7-AB2-7	7-22-68
	7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL C2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

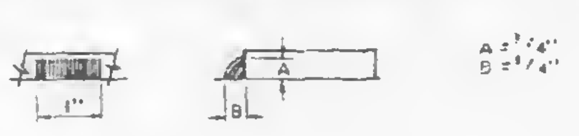
FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-28 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. — DATE 1/28/69	DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969 — IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221 — SHEET NO. FP C2C



OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
West only
24T12
24T118
13'-4"
20'-0"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-8"
O.C. CLOSURE UNIT (FURNISHED LOOSE)
PANEL NO. C2C SIZE 20' x 59'-8"
℄ EXT. COL. REF. LINE
6'-2 1/2"
6'-8"
3'-4"
MIN LENGTH OF 5/16" WELD 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL "D"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
10 5/8"
1'-5 1/2"
COLUMN END
5'-0" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
24T12 24T12 24T12 24T118
D 2'-1" C 13'-2 1/2" B 15'-2" 15'-2" B J 13'-11 1/2"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
COVER PLATE PLACEMENT
6'-9 1/2" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
10 3/8" ON 10 3/4" LOCATION OF HOLES
6" 5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
℄ TRUSS
3"x2"x1/4"
PF-11
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE-W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET W.T.C. 223
3"x2"x1/4"
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4"
DETAIL "K"
DETAIL "H"
SECTION C-C END SUPPORT ANGLE
COVER PLATE
TOP VIEW - DETAIL "A"
3/8" x 1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
1/2" x 1/4" FILLET W.T.C. 223
DETAIL "A"
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
SECTION B-B
SA2
ARC WELD W.T.C. 223.00
V4
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
COVER PLATE "B"
2" LAP
℄ P.P. 8
DETAIL "D"
COVER PLATE "D" OR "C"
COVER PLATE "E" OR "B"
2" LAP
DETAIL "E"
COVER PLATES 29 GA. THICK
4" 1'-9"
END STIFFENER
1" LAP
COVER PLATE C
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
1'-6 1/2" 6 0"
TO ℄ NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
℄ TRUSS
2"x1/4" FILLET W.T.C. 223
1 1/4"
3"
2 3/4"
3"x2"x1/4"
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4"
SEE DETAIL "J"
MK A3
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	ST 211B
	T12	3	24T12 x 19'-11"	ST 212
CLOSURE UNIT	8C	3	1 1/4" D 6'-6 1/2" TUBE	ST 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 3'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	3" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .035" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.O.C

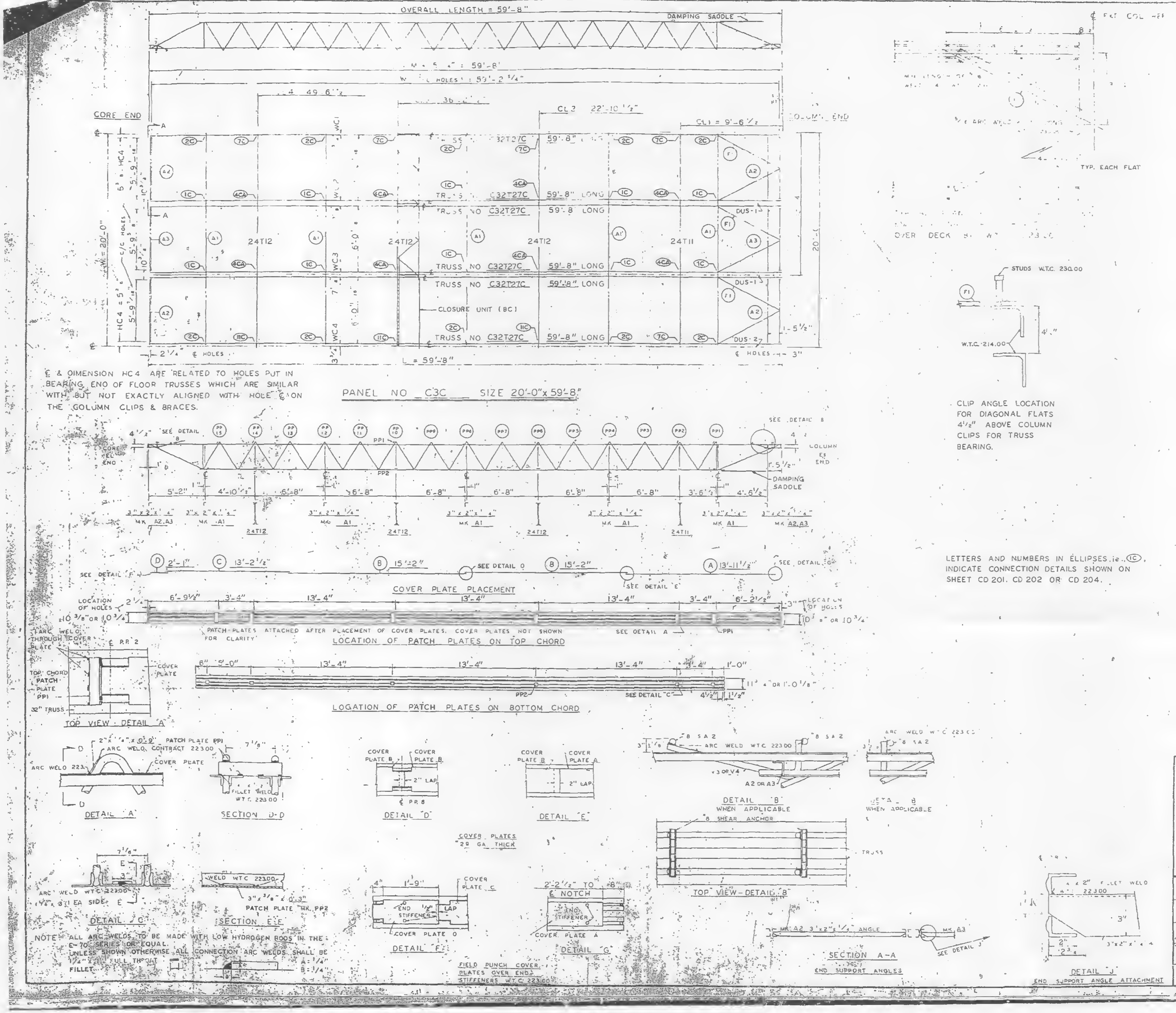
SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ REVISE
☐ REJECTED
6/6/69 SK

REF DRWG.	
7-A83-28	10-4-68
7-A84-28	7-22-68
7-A81-13	10-4-68
7-A82-7	7-22-68
7-A82-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL C2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-28 PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY T.N. CHUNG DATE APRIL 28, 1969
IN CHARGE OF PROD. DIV.
FABRICATION CONT NO W.T.C. 221
SHEET NO FP C2C


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
CORE END
COLUMN END
CL3 22'-10 1/2"
CL1 = 9'-6 1/2"
TRUSS NO C32T27C 59'-8" LONG
24T12
24T11
CLOSURE UNIT (BC)
DUS-1
DUS-2
L = 59'-8"
PANEL NO C3C SIZE 20'-0" x 59'-8"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
TOP VIEW - DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
COVER PLATES 29 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
OVER DECK

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET. A: 1/4" B: 1/4"

REQUIRED MATERIAL PER PANEL				REF. DR'WG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T27C	6	C32T27C - 59'-8"	ST227C
	[illegible]	1	24[illegible] 9'-1"	BT[illegible]
	T12	3	24T12 - 9'-11"	BT 212
ANGLE	A1	5	3"x2"x 1/4" x 19'-11"	ST 403
	A2	4	3"x2"x 1/4" x 5-11 [illegible]	ST 403
	A3	[illegible]	3"x2"x 1/4" x 5-11 3/4"	ST 403
[illegible]	F	[illegible]	[illegible] x 5'-8"	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0'-9"	ST 400
	PP2	18	3" x 3/8" x [illegible]-3"	ST 400
COVER PLATES	A	3	[illegible]	ST303
	B	6	9" x .0135" x 15'-2"	ST303
	C	3	9" x .0135" x 13'-2 1/2"	ST303
	D	3	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x 1/4" x 0-6	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"# x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-∠1 1/2" x 1 1/4" x	BT212
			.230 x 6'-6 1/2"	CO204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

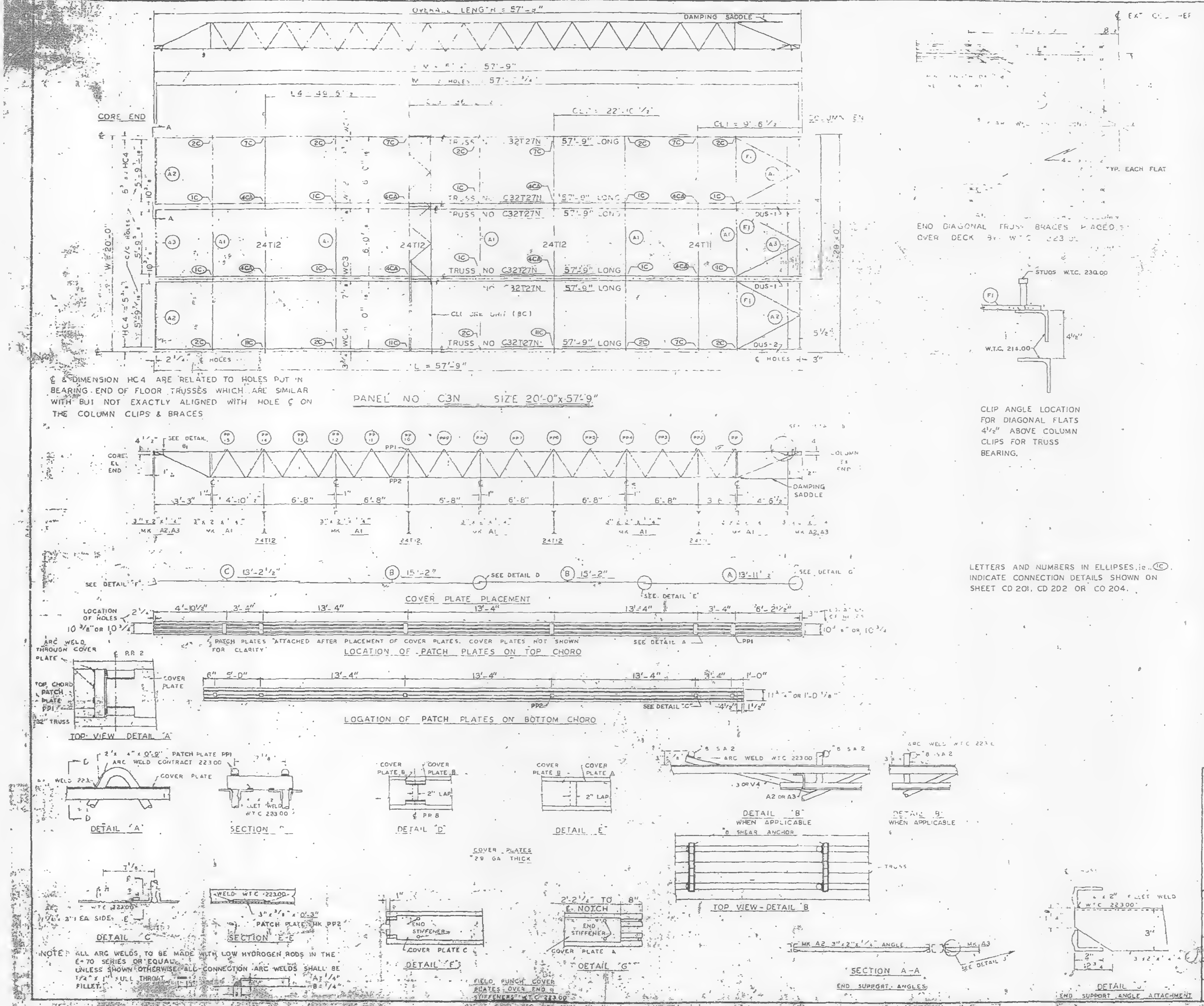
REF DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
	SA-12 4	1-6-69
	7-AB9-45	1-6-69
	7-AB1-24	1-6-69
	7-AB2-6 & 7	7-22-68
	7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOOR 78 (SOUTH)
PANEL C3C - 20'-0" x 59'-8"
BLDG. B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-45	PLATE
APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A.	DATE 7/31/69	DRAWN BY ___ DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP C3C



PANEL NO C3N SIZE 20'-0"x57'-9"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. ⑪C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
	27N	6	T27N 57'-9"	ST 227N
				211
	T12	3	24T12 - 57'-11"	BT 212
	A1	3	3 x 2 x 1/4 x 19'-11"	ST 403
	A2		3 x 2 x 1/4 x 5'-11 9/16"	ST 403
	A3	2	3 x 2 x 1/4 x 5'-11 3/4"	ST 403
	F1			ST 402
PATCH PLATES	PP1	18		ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	9"x 0135"x 13'-11 1/2"	ST303
	B	6	9"x 0135"x 15'-2"	ST303
	C	3	9"x .0135"x 13'-2 1/2"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	3	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS 2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ɸ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2"x 1 1/4"x	BT 212
			.230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA 124	1-6-69
7-AB3-45	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

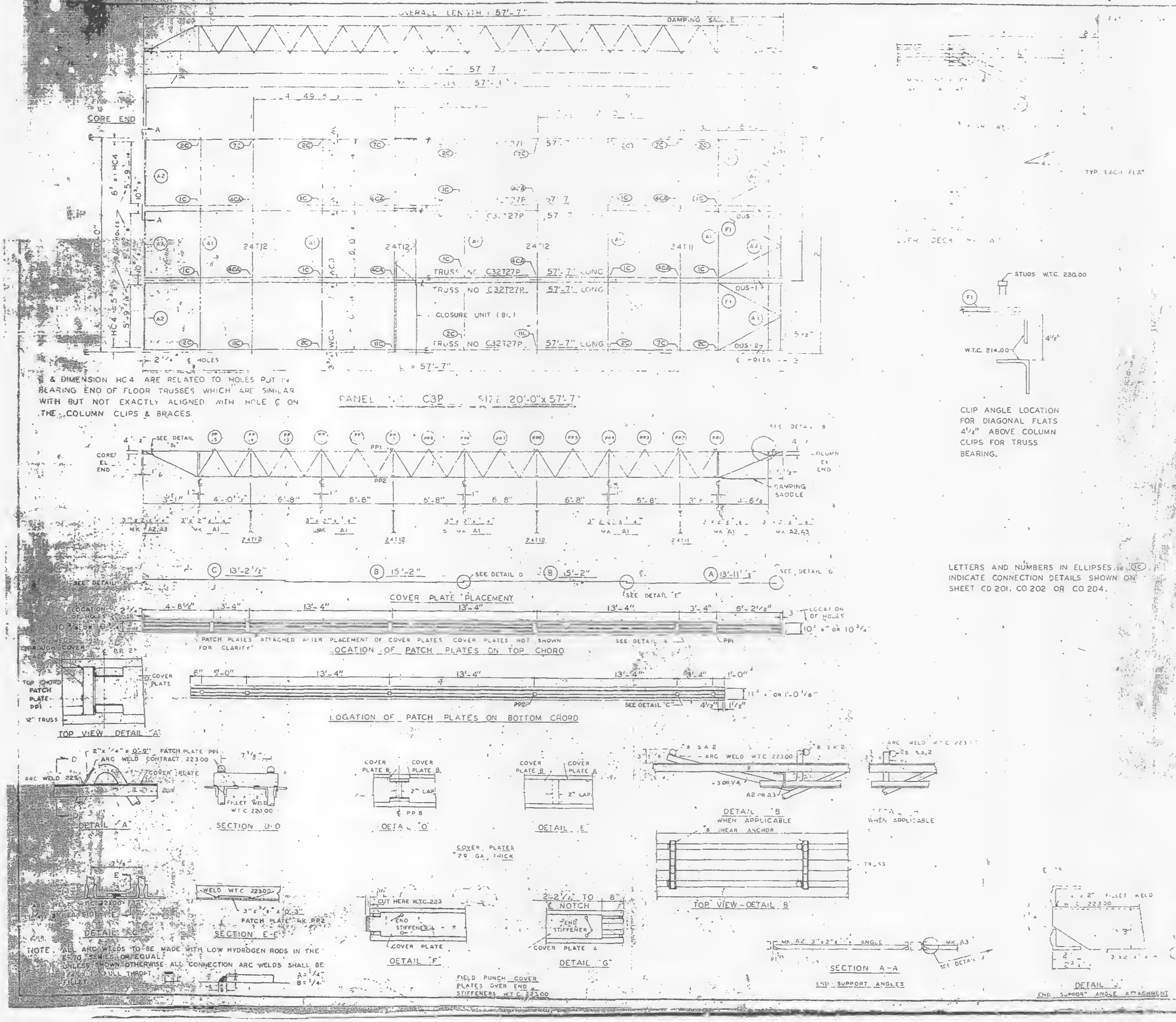
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG B 44 (EAST)

PANEL C3N - 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-45	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE 7/31/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP C3N

LACLEDE STEEL CO.



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x FULL THROAT FILLET.
A = ¼"
B = ¼"

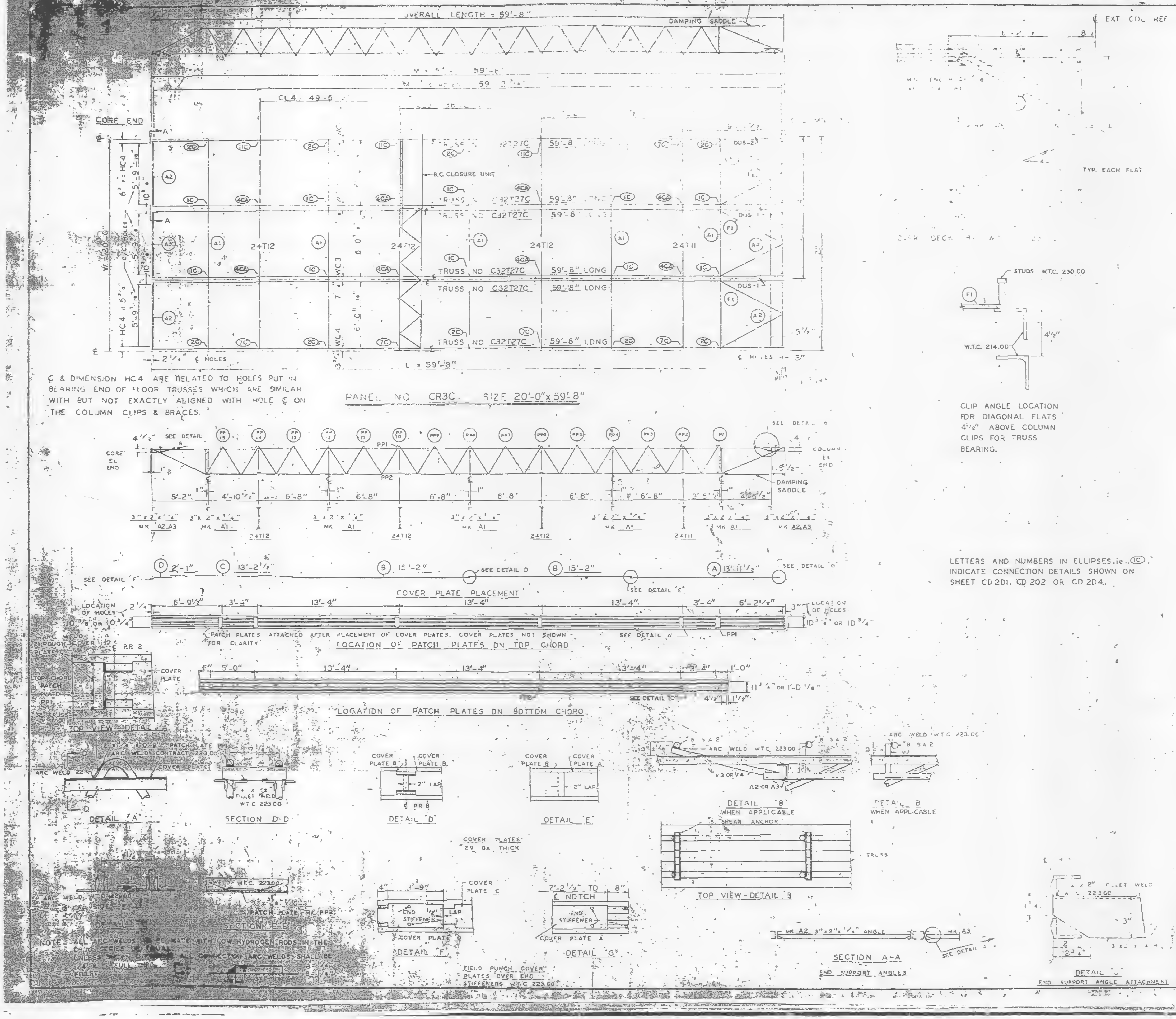
[illegible]	MATERIAL PER PANEL			REF. DRWG
	MK	[illegible]	SIZE	
	27P	[illegible]	12"27P 57'-7"	ST227P
[illegible]	[illegible]	[illegible]	[illegible]	BT2.1
[illegible]	[illegible]	[illegible]	[illegible]	BT2.2
[illegible]	[illegible]	[illegible]	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 402
[illegible]	[illegible]	[illegible]	[illegible]	ST 400
PATCH [illegible]	[illegible]	[illegible]	[illegible]	ST 4[illegible]6
[illegible]	B	6	[illegible]	ST [illegible]
[illegible]	C	3	[illegible]	[illegible]
[illegible]	[illegible]	21	[illegible]	ST 400
[illegible]	SA2	9	#8 REBAR x 0'-9"	ST 400
[illegible]	[illegible]	[illegible]	[illegible] 6⅞"	[illegible]
	[illegible]	1	[illegible] 6⅞"	[illegible]
[illegible]	CB1	4	[illegible] 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-4-1' 2"x1¼"x	BT212
			.230 x 5'-6½"	CD204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF. DRWG	
AB4-3	10-15-68
AB4-15 & 16	7-22-68
7-A34-41	7-22-68
SA 12A	1-6-69
7-AB3-45	1-6-69
AB1-24	1-6-69
AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
[illegible] N.Y.C.
FOR
[illegible] NEW YORK AUTHORITY
BLDG. A [illegible] 78 (NORTH)
PANEL C3P - 20'-0" x 57'-7"
BLDG. B FLOORS 78 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-45
PLATE
APPROVED FOR FABRICATION [illegible] FOR P.O.N.Y.A. DATE 7/31/69
DRAWN BY [illegible]
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY T.M.CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEPT. [illegible]
DETAILED BY A.G. WEBER
FABRICATION CONT. NO. [illegible] 221
SHEET NO FP C3P



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTES: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE [illegible]

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
[illegible]	T27C	6	C32T27C- 59'-8"	ST227C
[illegible]	[illegible]	1	24T[illegible]	BT211
	T12	3	24T12 - 19'-11"	BT212
[illegible] ANGLE	A1	5	3"x2"x1/4"x[illegible]	ST 403
	A2	4	[illegible]	ST 403
	A	[illegible]	[illegible]	ST 403
	F1	[illegible]	[illegible] 8"	ST 402
PATCH PLATES	PP1	18	[illegible] 9"	ST 400
	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	[illegible]	ST 303
	B	6	9" x .0135"x 15'-2"	ST 303
	C	3	9"x.0135"x13'-2 1/2"	ST 303
	D	3	9"x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS 2	1	3 1/2"x3 1/2"x3/8 x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 5/8 x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ∠s 1 1/2"x 1 1/4"x .230 x 6'-6 1/2"	BT212 CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-46	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 78 (SOUTH)

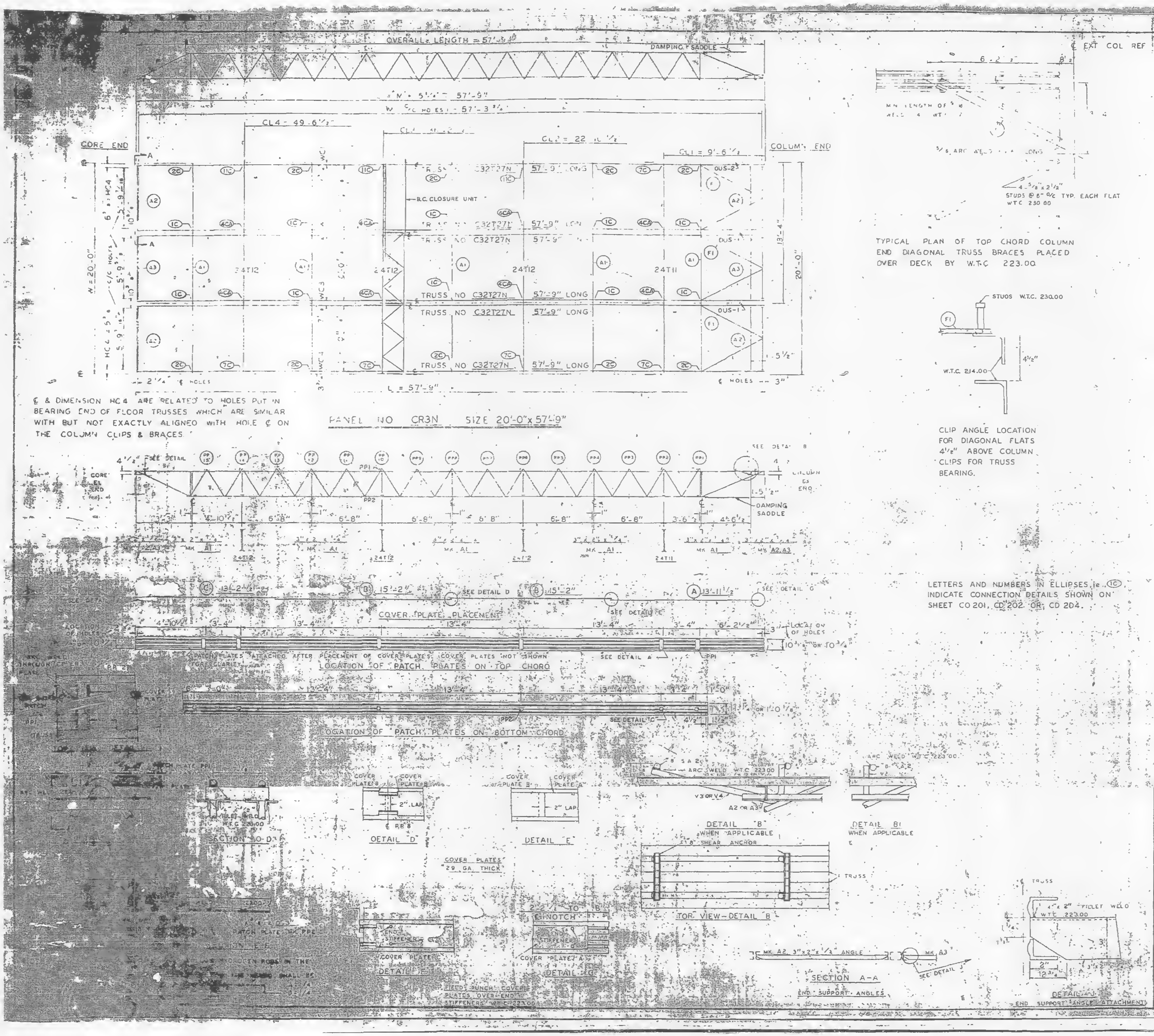
PANEL CR3C - 20'-0" x 59'-8"

BLDG. B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-46	PLATE [illegible]
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/31/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY R. G. WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-CR3C

LACLEDE STEEL CO.



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO CR3N SIZE 20'-0" x 57'-9"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES i.e. ⑪C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T27N	6	C32T27N 57'-9"	ST27N
BRACING TRUSSES	[illegible]		24 [illegible]	[illegible]
	T2	3	24T2 [illegible]	ST 212
[illegible] ANGLE	A1	5	3 x 2 x ¼ x [illegible]	ST 403
	A2	4	[illegible]	ST 403
	A	2	[illegible]	ST 403
[illegible]	[illegible]	5	[illegible] x 5-8	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	16	[illegible]	ST 400
COVER PLATES	A	3	9 x 0.35 x 3-11½	ST 303
	B	6	9 x 0.35 x 15'-2"	ST 303
	C	3	9 x 0.35 x 3-2½	ST 303
ANGLE CLIPS	C1	21	2 x 1½ x ¼ x 0'-6	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½ x 3½ x ⅜" x 3-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1 ⅜ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ∠ 1½" x 1¼" x	BT 212
			.230 x 6'-6½"	CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF. DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-46	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

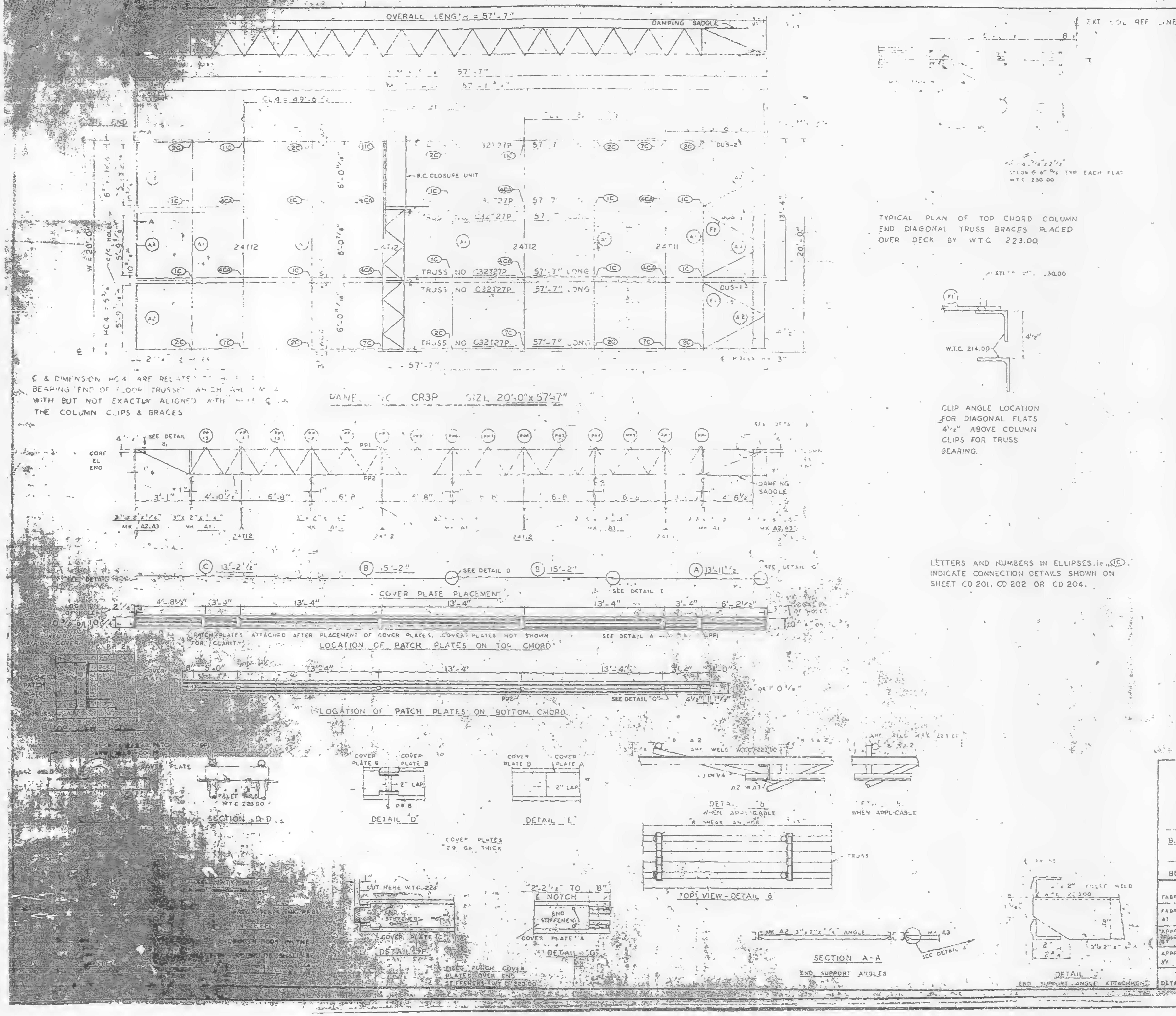
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG B FLOORS 44 (EAST)

PANEL CR3N - 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-46	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 7/3/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO DETAILED BY A. C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP CR3N



℄ & DIMENSION HC4 ARE RELATED TO ℄ OF BEARING END OF FLOOR TRUSSES WHICH ARE IN LINE WITH BUT NOT EXACTLY ALIGNED WITH THE ℄ OF THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF. DRWS.
MATERIAL	MK	PCS	SIZE	
[illegible]	27P	[illegible]	C32T27P 57'-7"	ST227P
[illegible]	[illegible]	[illegible]	[illegible]	BT212
[illegible]	[illegible]	[illegible]	24T [illegible]	BT212
[illegible]	A	3	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 402
[illegible]	F1	6	[illegible]	ST 400
[illegible]	PP	6	[illegible]	ST 400
[illegible]	[illegible]	3	[illegible]	ST 303
[illegible]	[illegible]	6	[illegible] 5-2	ST 303
[illegible]	[illegible]	[illegible]	[illegible] x 3 [illegible]	ST 303
[illegible]	[illegible]	21	2 x 2 x ¼ x 0 6	ST 400
[illegible]	SA2	9	⁷/₈ REBAR x 0'-9"	ST 400
[illegible]	DUS1	2	3 ½" x 3 ½" x ³/₈" x 3'-6 ⁷/₈"	ST298
	DUS 2	1	3 ½ x 3 ½ x ³/₈ x 3'-6 ⁷/₈	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 ½ x 1 ¼" x	BT212
			.230 x 6'-6 ½"	CD204
CONNECTION PLATES	P1	5	3 ½" x ³/₈" x 0'-6 ½"	ST 400
	P2	4	4 ½" x .39" x 0'-9"	ST 400
	P3	1	4 ½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

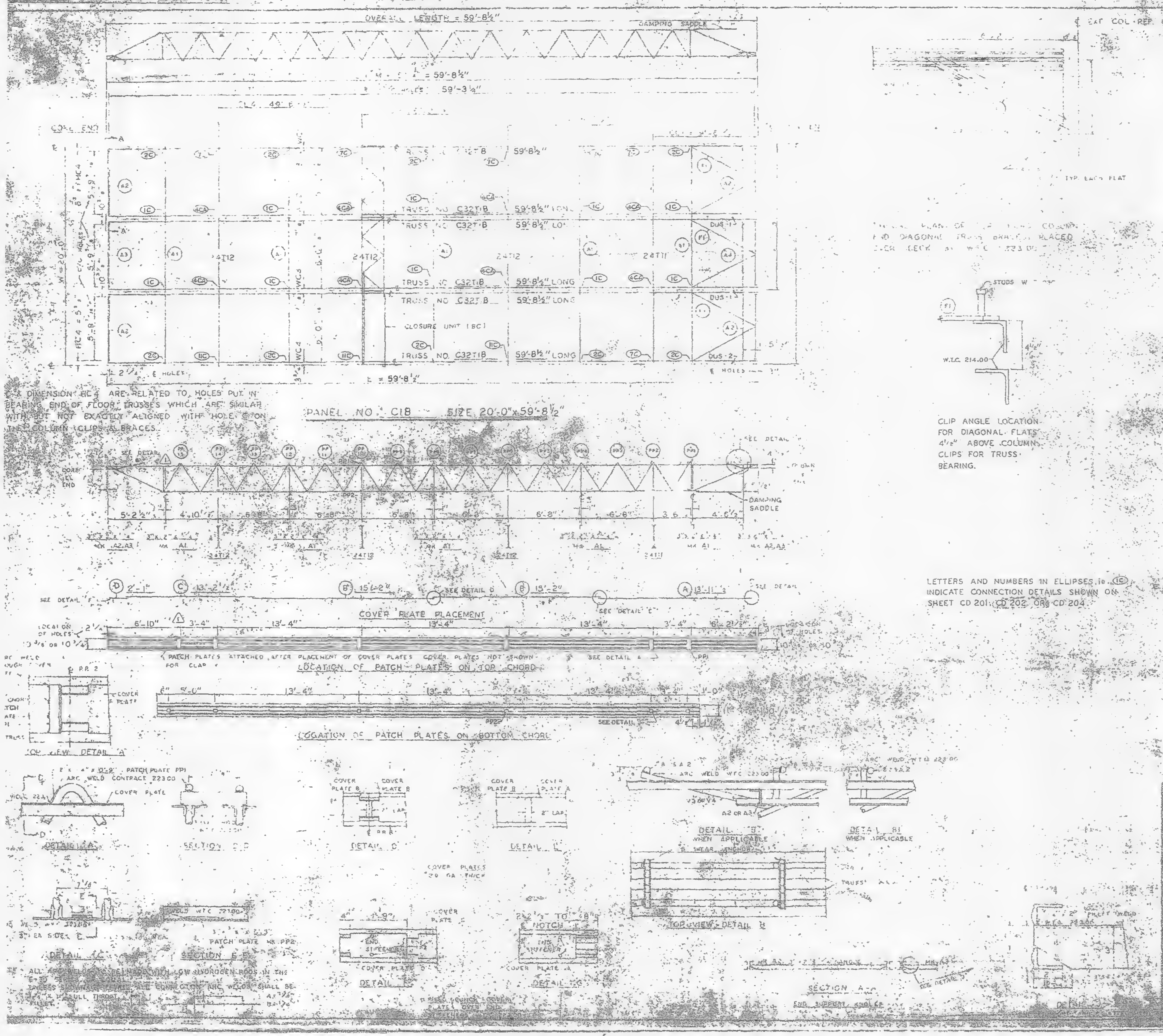
REF DRWG

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-12 4	1-6-69
7-AB3-46	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 78 (NORTH)
PANEL CR3P 20'-0" x 57'-7"
BLDG B FLOORS 78 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-46
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A DATE 7/3/69
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE PROD. DEV.
DETAILED BY [illegible]
FABRICATION CONT. NO. WTC 221
SHEET NO FP CR3P



LETTERS AND NUMBERS IN ELLIPSES (IC) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.

NO.	DATE	REVISION
△	8-5-69	AS NOTED

△ REF DRWG

REQUIRED MATERIAL				
MATERIAL	MARK	NO.	SIZE	SPEC.
FLOOR TRUSSES	18	[illegible]	[illegible] 18 59'-8½"	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	T11	1	24T11 [illegible]	[illegible]
	T12	3	24T12 [illegible]	[illegible]
[illegible] ANGLE	A1	9	[illegible]	[illegible]
	A2	4	3"x2"x¼"x5' [illegible]	ST 400
	A3	2	3"x2"x¼"x5' [illegible]	ST 400
[illegible]	[illegible]	[illegible]	1½"x [illegible] x 2-6"	ST 400
PATCH PLATES	PP1	18	2" x ¼" x 0-9"	ST 400
	PP2	16	3" x ⅜" x 0-3"	ST 400
COVER PLATES	A	3	9" x 0.135" x 13'-[illegible]	[illegible]
	B	6	9" x 0.135" x 13'-[illegible]	[illegible]
	C	3	9" x 0.135" x 13'-2	ST 400
	D	3	9" x 0.135" x 2'-1"	[illegible]
ANGLE CLIPS	C1	21	2"x2½"x¼" x 0-6	ST 400
[illegible] SHEAR ANCHOR	SA2	12	#5 REBAR [illegible]	[illegible]
DAMPING SADDLE	DUS-1	2	3½"x3½"x [illegible]	[illegible]
	DUS-2	1	3½"x3½"x [illegible]	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1½ x [illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
CONNECTION PLATES	P1	[illegible]	[illegible]	[illegible]
	P2	4	4½" x .25" x 0'-2"	ST 400
	P3	1	4½" x .38" x 1'-0"	ST 400

FLOOR PANEL DETAIL

WORLD TRADE CENTER

FOR

THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 83-91, 93-108 (N)

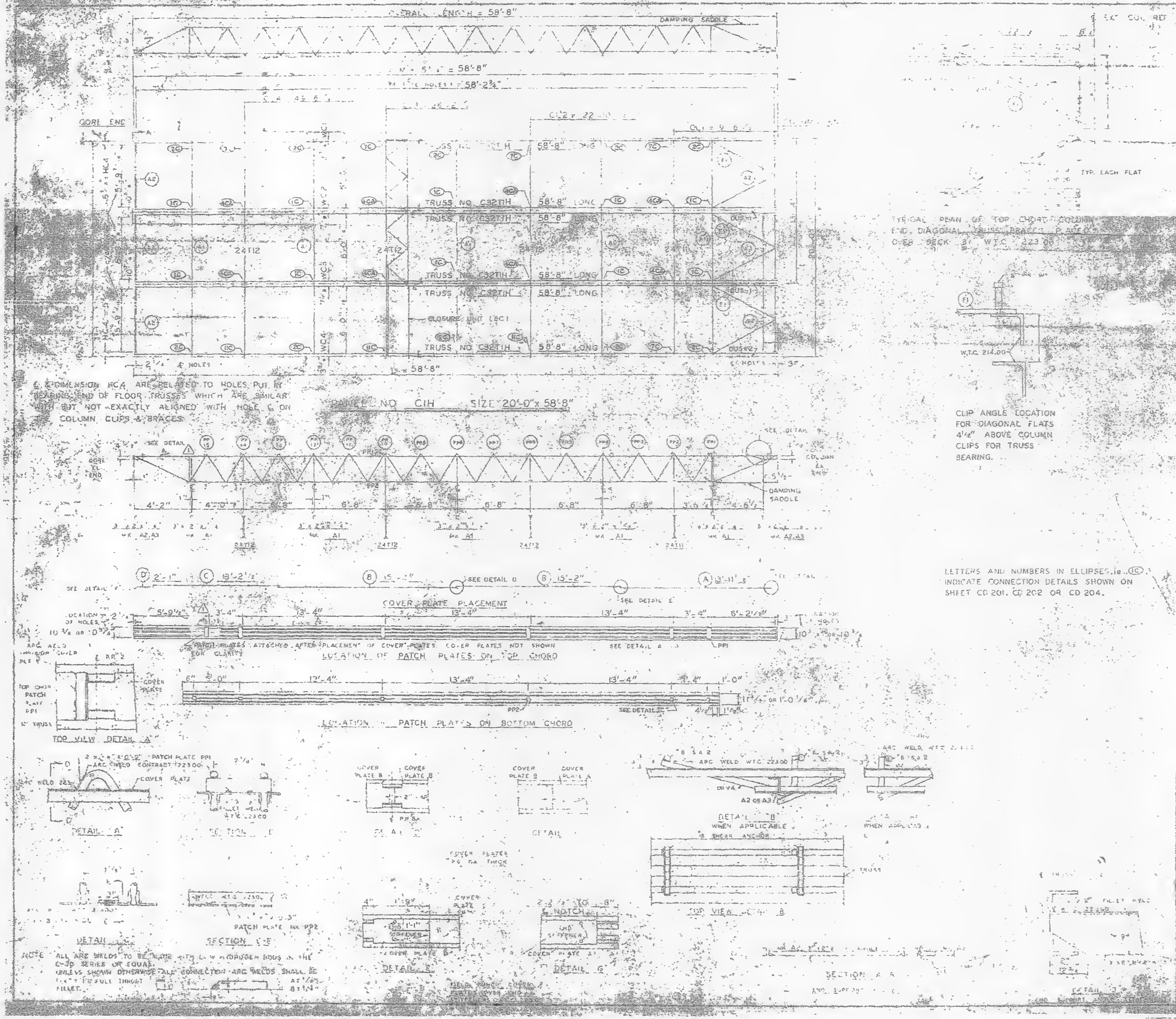
BLDG. B FLOORS 83-91, 93-106 [illegible]

FABRICATION BY LACLEDE STEEL [illegible]

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION [illegible] 10-24-68

APPROVED FOR [illegible] [illegible] CHURA 10-24-68



PANEL NO. C1H SIZE 20'-0" x 58'-8"

℄ DIMENSION HCA ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON COLUMN CLIPS & BRACES.

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL HEIGHT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	4	32T1H 58'-8"	[illegible]
[illegible] TRUSSES	T11		[illegible]	[illegible]
	T12	9	24T12 -19'-1½"	[illegible]
[illegible] ANGLE	A1	5	[illegible]	ST 400
	A2	4	[illegible]	ST 400
	A3	2	[illegible]	ST 400
DIAGONAL FLATS	F1	6	[illegible]	ST 400
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	10	[illegible]	ST 400
COVER PLATES	A		[illegible]	
	B	6	[illegible]	
	C	3	[illegible]	
	D	3	[illegible]	
ANGLE CLIPS	C1	21	[illegible]	
B SHEAR ANCHOR	SA2	9	[illegible]	
DAMPING SADDLE	DUS-1	3	[illegible]	
	DUS-2	1	[illegible]	
CONNECTION BAR	CB1	2	[illegible] 11-3"	ST 400
CLOSURE UNIT	BC	3	[illegible]	
CONNECTION PLATES	PL	5	[illegible]	[illegible]
	P2	4	4½" x [illegible] x 0'-9"	ST 400
	P3	1	[illegible] x 1'-20"	ST 400

1	6-8-05	AS NOTED
NO	DATE	REVISION

THE PORT OF NEW YORK AUTHORITY

BLDG B FLOORS 79-80(N)

PANEL C1H [illegible] 58'-8"

BLDG. 8 FLOORS 79-80 (WEST) 1

FABRICATED BY LACLEDE STEEL COMPANY

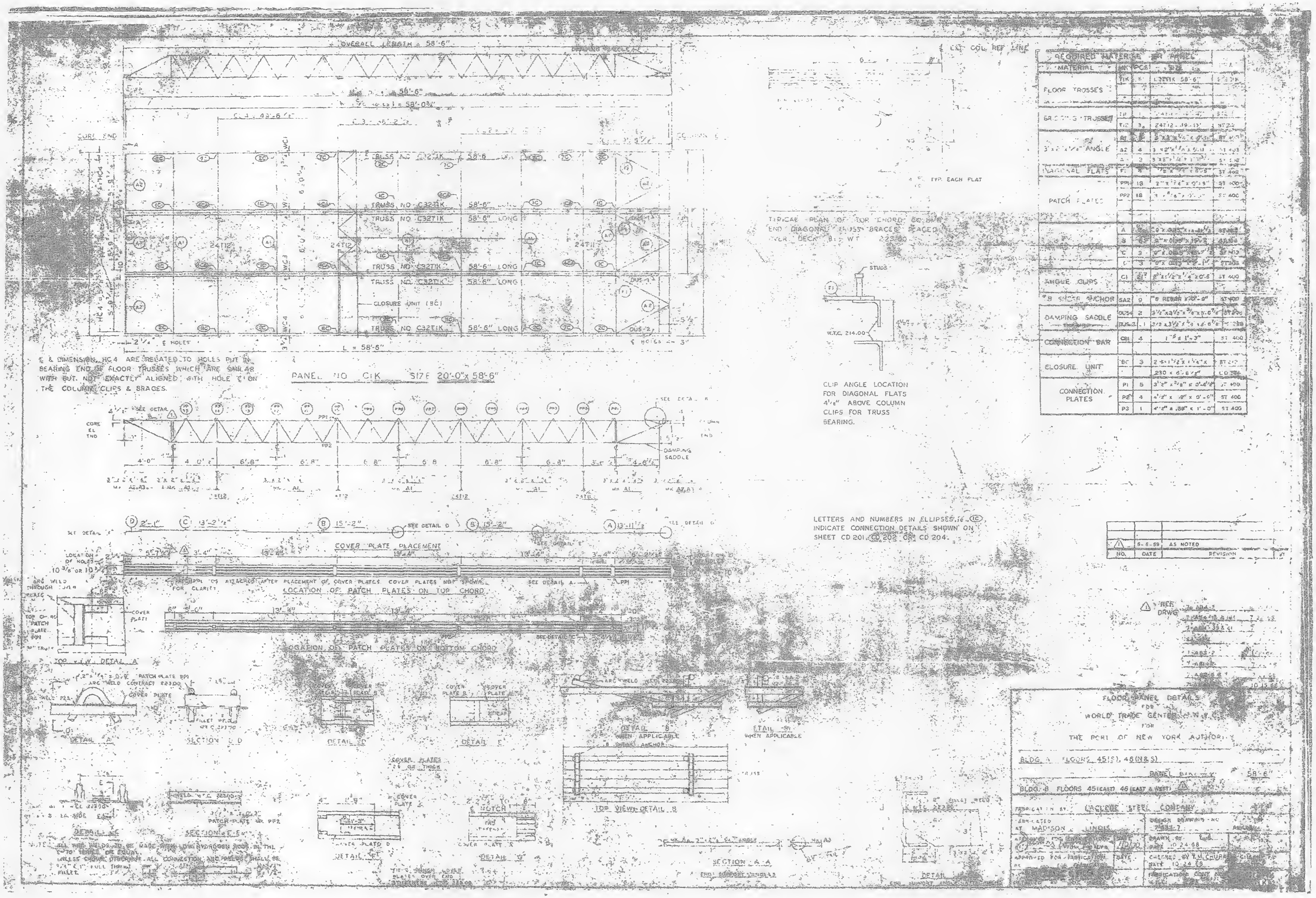
FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. [illegible] 7-22-68

10-24-66

M. CHUR

10-24-66



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO C1K SIZE 20'-0" x 58'-6"

TYPICAL PLAN OF TOP CHORD SHOWING END DIAGONAL TRUSS BRACES PLACED OVER DECK. B.S. WT 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/8" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL [illegible] WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION AND WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1K	5	C32T1K 58'-6"	[illegible]
BRACING TRUSSES	T11	1	24T11 - [illegible]	[illegible]
	T12	3	24T12 - 19'-1 1/2"	ST 2[illegible]
3" x 2" x 1/4" ANGLE	A1	[illegible]	3" x 2" x 1/4" x [illegible]	ST 40[illegible]
	A2	4	3" x 2" x 1/4" x 5'-[illegible]	ST 402
	A3	2	3" x 2" x 1/4" x [illegible]	ST 4[illegible]
DIAGONAL FLATS	F1	4	[illegible]	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-[illegible]	ST 400
	PP2	18	3" x 5/8" x 0'-[illegible]	ST 400
	A	[illegible]	9" x .085" x [illegible]	[illegible]
	B	[illegible]	9" x .085" x 19'-2"	[illegible]
	C	3	9" x .085" x [illegible]	ST 402
	D	3	9" x .085" x 2'-1"	ST 2[illegible]
ANGLE CLIPS	C1	2[illegible]	3" x 1 1/2" x 1/4" x 0'-5"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 0'-6 7/8"	ST 2[illegible]
	DUS-2	1	3 1/2 x 3 1/2" x 3/8" x 0'-6 7/8"	[illegible]
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - [illegible] x 1 1/4" x 1 1/4" x	ST 2[illegible]
			230 x 6'-8 1/2"	[illegible]
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .59" x 0'-9"	ST 400
	P3	1	4 1/2" x .59" x 1'-0"	ST 400

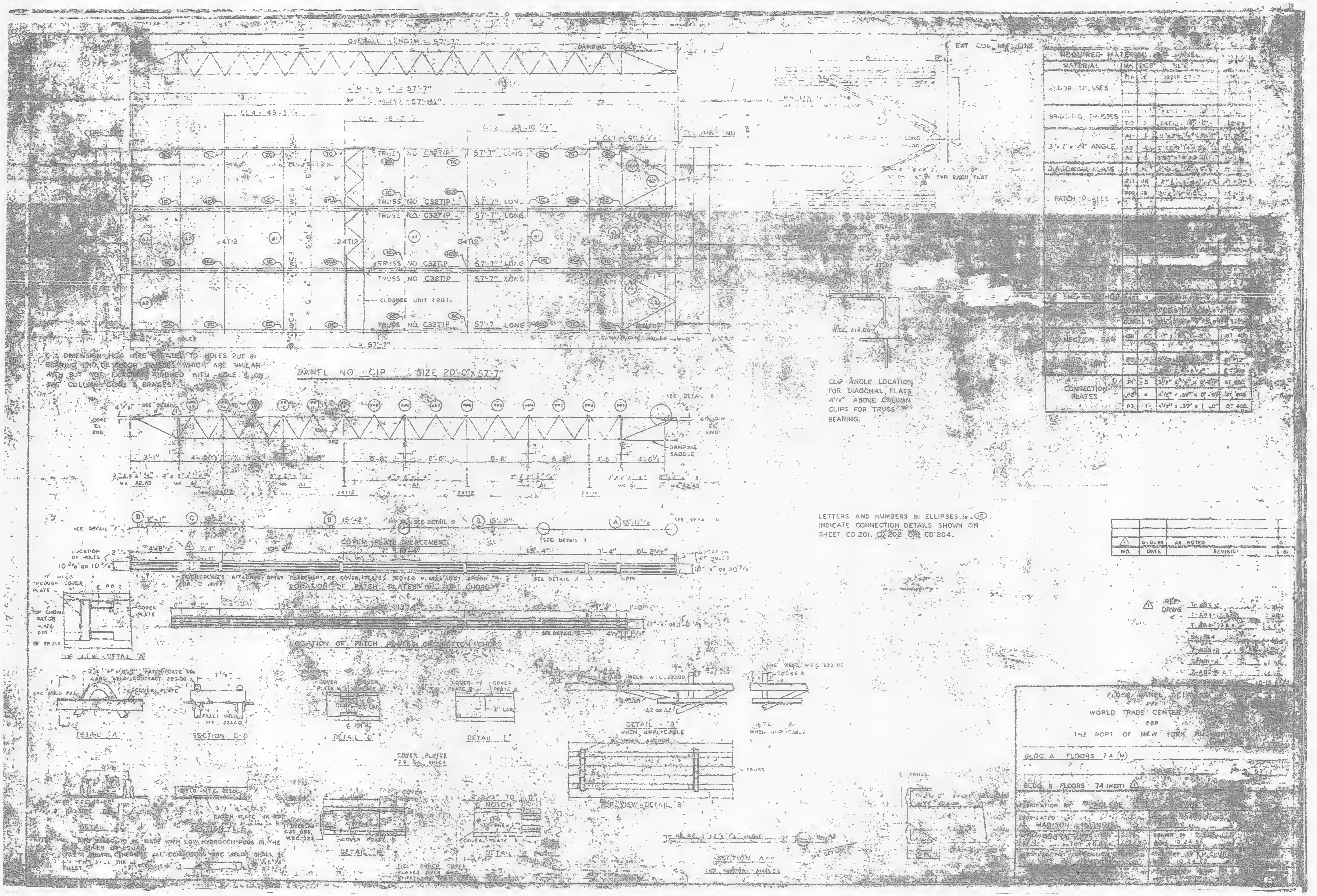
1	5-5-59	AS NOTED
NO.	DATE	REVISION

1 REF DRWG

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45(S), 46(N&S)
PANEL [illegible] 58'-6"
BLDG. B FLOORS 45(EAST) 46(EAST & WEST) 1

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON ILLINOIS
DESIGN DRAWING NO [illegible]
APPROVED FOR [illegible] DATE 7/2/70
DRAWN BY [illegible] DATE 10-24-68
APPROVED FOR FABRICATION DATE
CHECKED BY T.M. CHURCH DATE 10-24-68
FABRICATION CONT [illegible]



C-2 DIMENSION ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

PANEL NO. C1P SIZE 20'-0" x 57'-7"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FILLET.

REQUIRED MATERIAL				
MATERIAL	MK	REQ	SIZE	
FLOOR TRUSSES	T1P	4	C32T1P 57'-7"	[illegible]
BRIDGING TRUSSES	T1	1	24T11	[illegible]
	T12	3	24T12	[illegible]
3½" x 2" x ¼" ANGLE	A1	[illegible]	[illegible]	[illegible]
	A2	[illegible]	[illegible]	[illegible]
	A3	[illegible]	[illegible]	[illegible]
DIAGONAL FLATS	F1	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	18	[illegible]	[illegible]
	PP2	18	[illegible]	[illegible]
ANGLE CLIPS	[illegible]	[illegible]	[illegible]	[illegible]
SHEAR ANCHOR	SA21	9	[illegible]	[illegible]
DAMPING SADDLE	DS-1	[illegible]	[illegible]	[illegible]
	DS-2	1	[illegible]	[illegible]
CONNECTION BAR	CB1	4	[illegible]	ST 400
CLOSURE UNIT	BC	3	[illegible]	ST 212
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-9½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

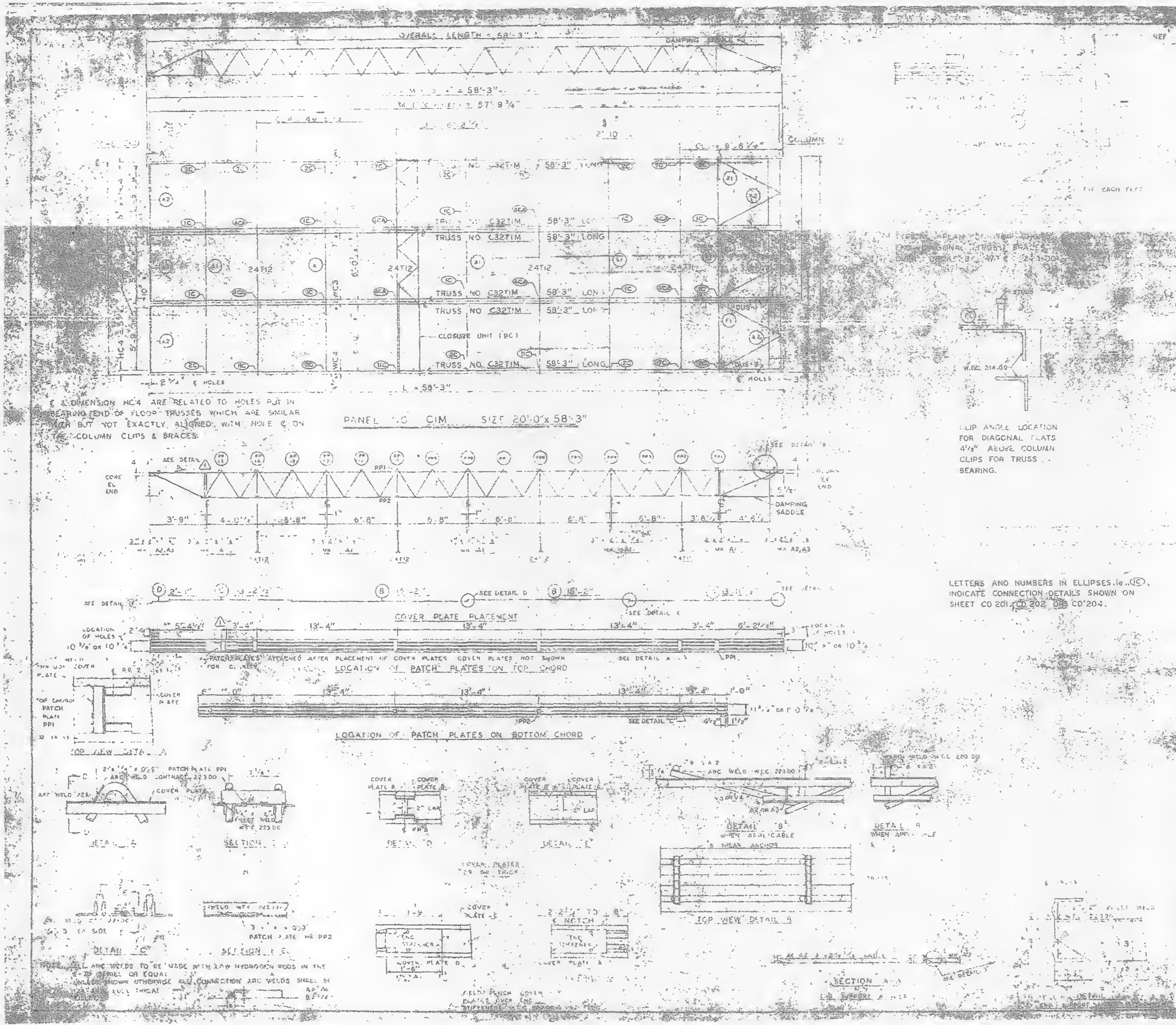
NO.	DATE	REVISION
1	6-6-69	AS NOTED

REF. DRWG.
7-AB-1
7-AB-2
7-AB-40 & 7
10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 74 (N)
PANEL 57'-7"
BLDG. B FLOORS 74 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DATE 7/9/70
FOR P.O.N.Y.A.
DRAWN BY [illegible] DATE 10-24-68
CHECKED BY T.M. CHUR[illegible] 10-24-68



& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. CIM SIZE 20'-0" x 58'-3"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES ie. Ⓘⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT

REQUIRED MATERIAL FOR PANEL

MATERIAL	MK	NO.	SIZE
FLOOR TRUSSES	TIM	[illegible]	C32TIM 58'-3"
[illegible] TRUSSES	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
3 1/2 [illegible] ANGLE	A1	5	[illegible]
	A2	4	[illegible]
	A3	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
PATCH [illegible]	PP1	16	[illegible]
	PP2	[illegible]	[illegible]
COVER PLATES	A	3	[illegible]
	B	6	[illegible] x .0329" x [illegible]
	C	3	9" x .0135" x 12'-2"
	D	3	9" x .035" x [illegible]
ANGLE CLIPS	C1	21	[illegible]
B. SHEAR ANCHOR	BA2	9	[illegible]
DAMPING SADDLE	DUS1	2	3 1/2 x 3 1/2 x [illegible]
	DUS2	1	3 1/2 x 3 1/2 x 1/8 [illegible]
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"
CLOSURE UNIT	BC	3	[illegible]
			23D x 8' [illegible]
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-[illegible]
	P2	4	4 1/2" x .30" x [illegible]
	P3	1	4 1/2" x .30" x [illegible]

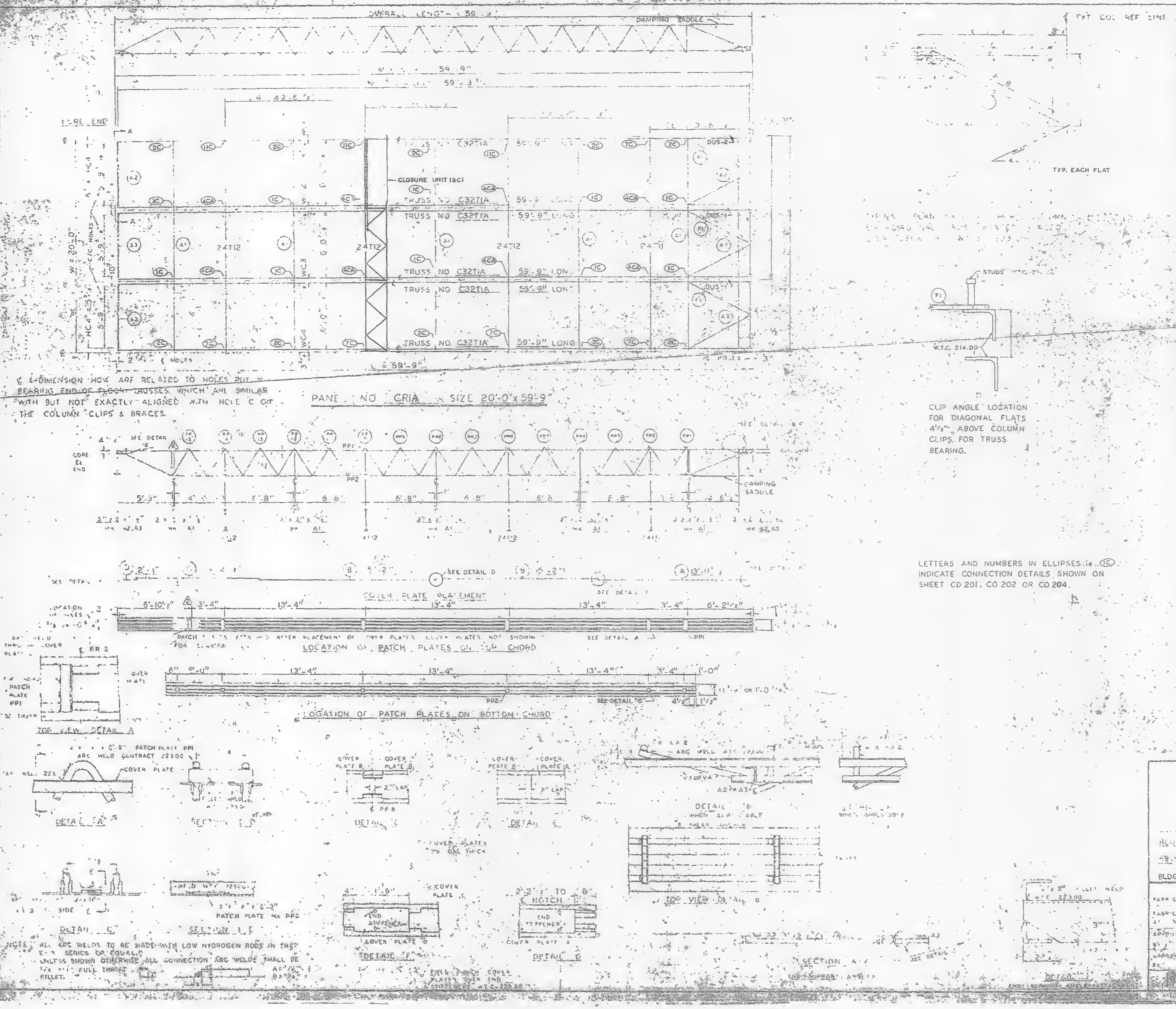
NO.	DATE	
1	6-6-69	AS NOTED

1 REF DRWG
A.B.A. 39
AB1
AB

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 72-73 (WEST) 1

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION
APPROVED FOR FABRICATION BY FABRICATOR
DATE 10-24-68
CHECKED BY
DATE [illegible]-4-69



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. CRIA SIZE 20'-0" x 59'-9"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. ⓘC INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CO 202 OR CO 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-[illegible] SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4 [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59'-8	ST298
[illegible]	T.1	1	24T[illegible] - 9 [illegible]	BT21
	T.2	3	24T[illegible] - 9 - 1"	BT212
[illegible] ANGLE	A1	5	3" x 2" x [illegible] x 19'-11"	ST 403
	A2	4	3" x 2 x 1/4 x 5 [illegible]	ST 403
	A3	2	3 x 2 x [illegible]	ST 403
[illegible]	F.	5	[illegible] x 6 [illegible]	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0'-9	ST 400
	PP2	18	[illegible] x 0'-3"	ST 400
COVER PLATES	A	3	9" x 0.35 x [illegible]	ST 303
	B	6	9 x 0.35" x 3'-?	ST 303
	C	3	9 x 0.35" x 2'-2"	ST 303
	D	3	9 x 0.35" x 2'-1"	ST 303
ANGLE CLIPS		21	2" x 1 1/2" x [illegible] x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLES	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2 x 3 1/2" x 3/8" x 3' 8 7/8	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-4 x 1 1/2" x 1 1/4" x	BT 212
			230 x 8'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1' 0"	ST 400

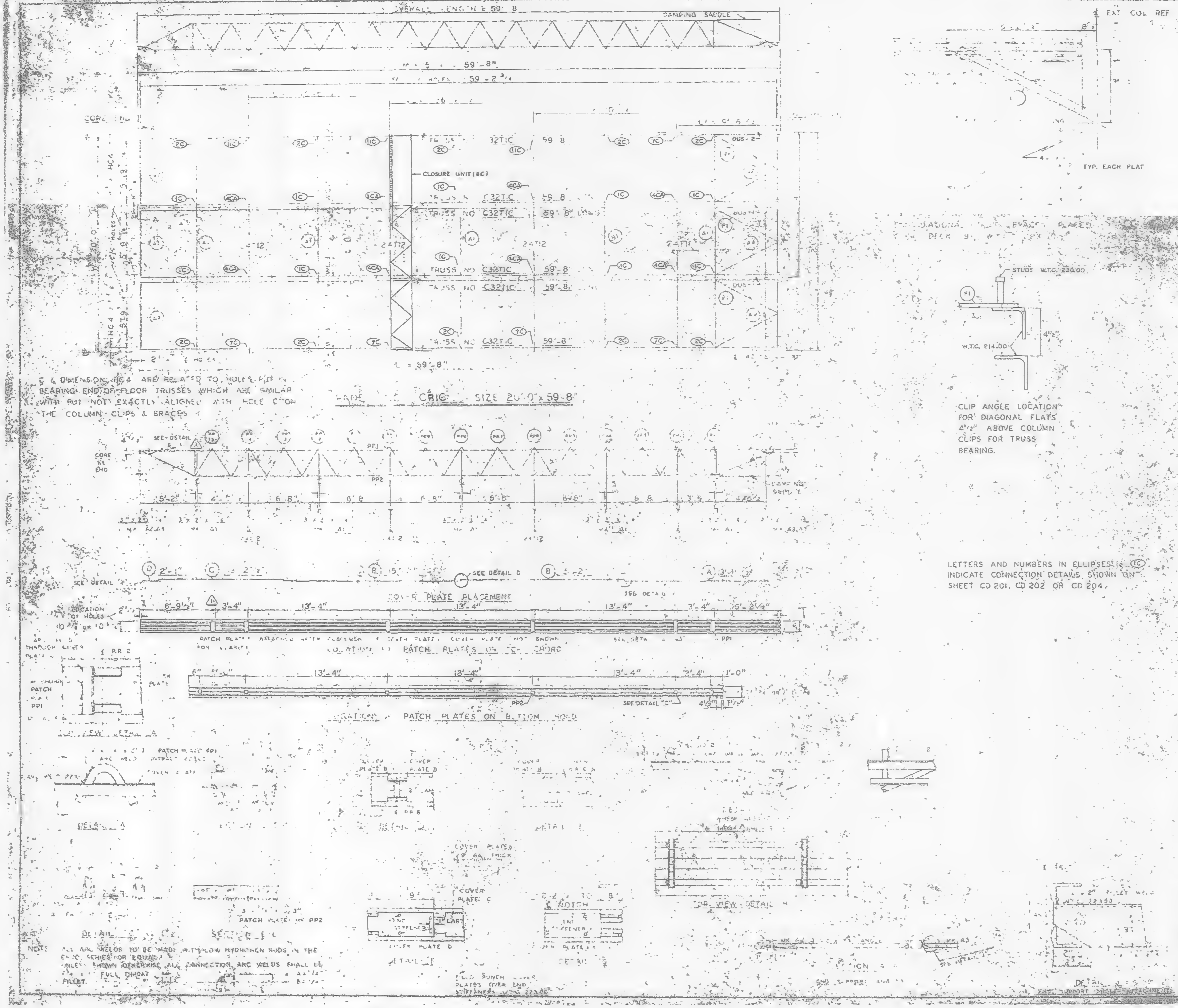
NO.	DATE	REVISION	BY
2	6-6-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.

2 REF. DRWGS.
- 7-AB4-2 10-15-68
- 7-AB4-15 & 6 7-22-68
- 7-AB4-41 7-22-68
- SA-124 [illegible]-6-69
- 7-AB3-2 1-3-69
- 7-AB1-2 7-22-68
- 7-AB2-6 & 7 7-22-68
- 7-AB4-42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR [illegible]
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68, 69 NORTH
PANEL CRIA [illegible] 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8 [illegible] 4-1-68 SCALE
APPROVED FOR FABRICATION BY [illegible] DATE
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY [illegible] DATE APRIL 10, 1968
FABRICATION CONT. NO. W.T.C. [illegible]
SHEET [illegible] CRIA



Ȼ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Ȼ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/16 FULL THROAT FILLET.

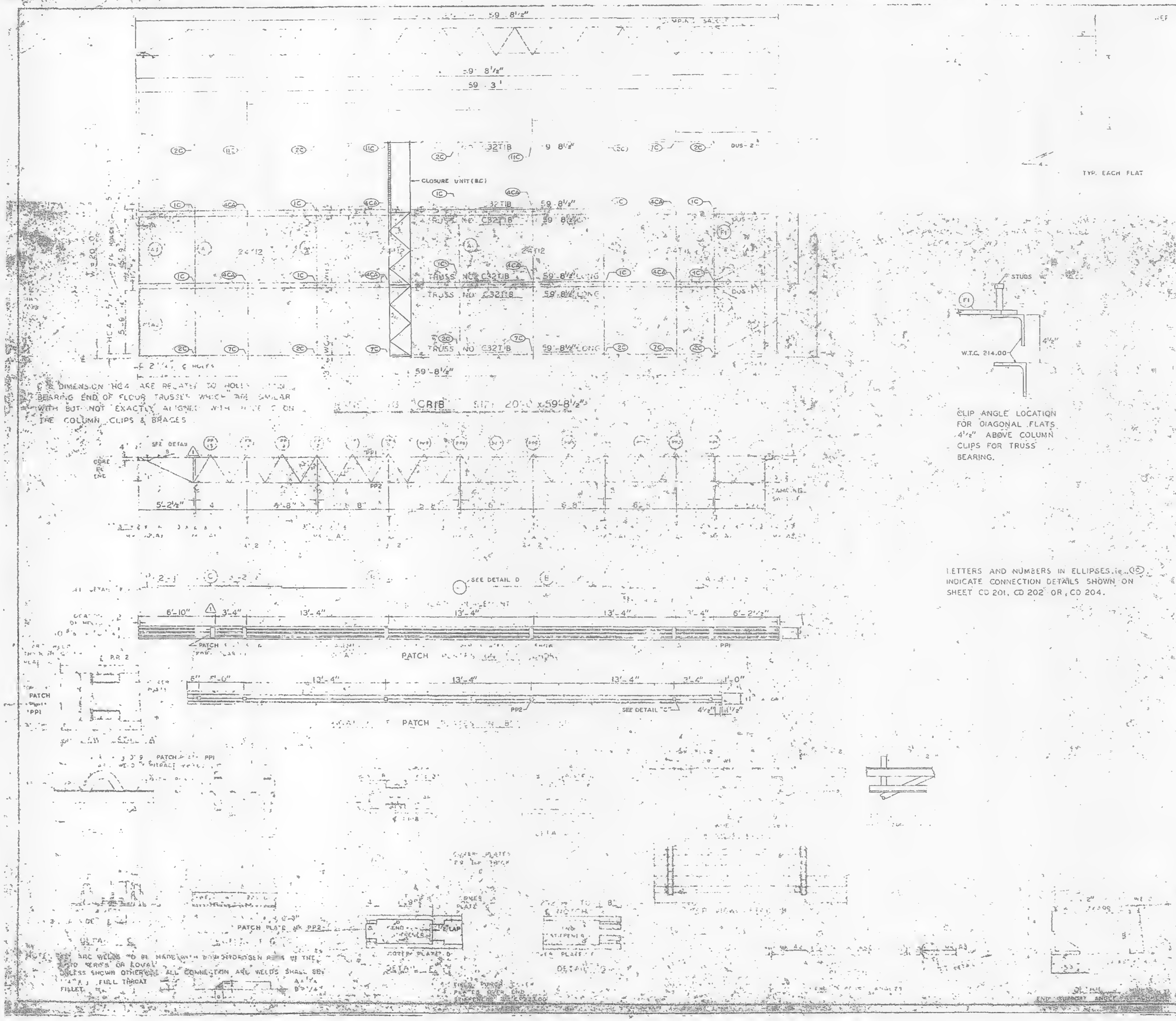
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	1C	6	C32T1C - 59'-8"	ST 210C
BRIDGING TRUSSES	T1	1	24T4 - 19'-11"	BT211
	T12	3	24T12, 19'-11"	BT212
3"x2"x1/4 ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 3/4	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4 x 0'-2	ST 400
	PP2	18	3" x 1/4 x 0'-3"	ST 400
COVER PLATES	A	3	9" x 0.135" x 13'-11 1/2	ST 203
	B	6	9" x 0.135" x 16'-2"	ST 203
	C	3	9" x 0.135" x 13'-2 1/2	ST 203
	D	3	9" x 0.135" x 2'-1"	ST 203
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 Ø x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ∠s 1 1/2 x 1 1/4" x	BT212
			230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	6	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-8"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-9-69	AS NOTED	G.D.

⚠1 REF DRWG
7-AB4-3 10-15-68
7-AB4-15,16 & 39 7-22-68
7-AB4-41 7-22-68
SA-R24 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 & 7 7-22-68
7-AB4-42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. B FLOORS 49-58, 60-66, 68-74, 79-91 & 93-106
PANEL CRIC 20'-0"
BLDG. B FLOORS 49-58, 60-74, 79-91 & 93-106 (ERECT) ⚠1

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-B
APPROVED FOR FABRICATION BY [illegible] FOR PONY A DATE
DRAWN BY
DATE OCT 23 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHUR
DATE OCT 23 1968
DETAILED BY



DIMENSION HC4 ARE RELATED TO HOLES ... BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH ... ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ... ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS OF THE ... SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARE WELDS SHALL BE ... FULL THROAT FILLET.

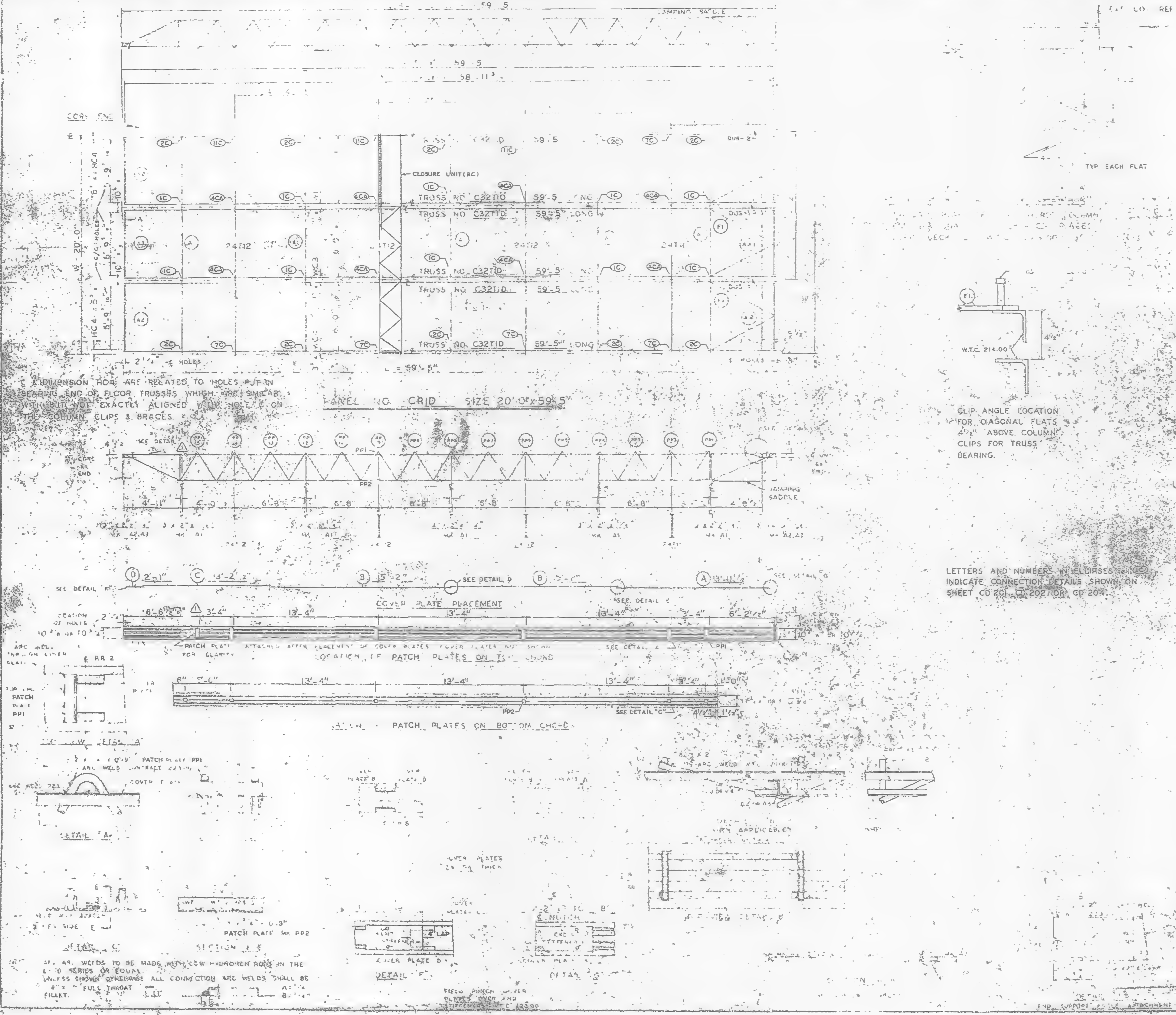
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
	B	[illegible]	C32T1B - 59'-8½"	ST201B
		1	[illegible]	BT211
	T12	3	24T12 19'-11"	BT212
ANGLE	A1	5	3"x2"x¼"x 15'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11 ⅛	ST 403
	A3	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible] 6 8	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	9"x.0135"x 13'-[illegible]½	ST303
	B	6	9"x.0135"x 15'-2"	ST303
	C	3	9"x.0135"x 13'-2½	ST303
	D	3	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1½"x¼"x 0'-6"	ST 400
8 SHEAR ANCHOR	SA2	12	6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6 ⁷⁄₈"	ST298
	DUS-2	1	3½"x3½"x⅜"x3'-6 ⁷⁄₈"	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	8C	3	2 [illegible] 1½"x1¼"x	BT212
			230 x 6'-6½"	CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-9-69	AS NOTED	G.D.C.

⚠1 REF. DWG.
7-AB4-2 10-15-68
7-AB4-15,16 7-22-68
7-AB4-41 7-22-68
SA-24 1-6-69
7-AB3-2 1-3-68
7-AB5-2 7-22-68
7-AB2-6 & 7 7-22-68
7-AB4-42 10-15-68

... TAILS
WORLD TRADE CENTER N.Y.C.
... AUTHORITY
... 83-91 & 93-106 (N)
PANEL CRIB ... 59'-8½"
BLDG. B FLOORS 83-91 & 93-106 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8
APPROVED FOR FABRICATION DATE
DRAWN BY ... DATE OCT 23, 1968
APPROVED FOR FABRICATION DATE
CHECKED BY T.M. CHUR... DATE OCT 23, 1968
DETAILED



A DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES (e.g. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

ALL WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	D	6	C32TID - 59'-5"	ST201D
[illegible]	T-1	1	24T1 - 19'-11"	ST211
	T-2	3	24T12 - 19'-11"	ST212
[illegible] ANGLE	A1	5	3"x2"x¼"x 9'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x¼"x 5'-[illegible]	ST 403
DIAGONAL FLATS	F	6	1½"x⅜"x 5'-8"	ST 402
PATCH PLATES	PP1	18	2"x 1¾"x 0'-5"	ST 400
	PP2	18	3"x ⅜"x 0'-3"	ST 400
COVER PLATES	A	3	9"x .0135"x 13'-11½"	ST303
	B	6	9"x .0135"x 13'-2"	ST303
	C	3	9"x .0135"x 13'-2½"	ST303
	D	3	9"x .0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1½"x¼"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS1	2	3½"x3½"x⅜"x 3'-6⅞"	[illegible]
	DUS2	1	[illegible]	[illegible]
CONNECTION BAR	CB1	[illegible]	[illegible]	ST 400
CLOSURE UNIT	BC	3	[illegible]	[illegible]
			230 x 0'-6½"	
CONNECTION PLATES	P1	5	3½"x[illegible]x 0'-6"	ST 400
	P2	4	4½"x .30"x 0'-9"	ST 400
	P3	1	4½"x .30"x 1'-0"	ST 400

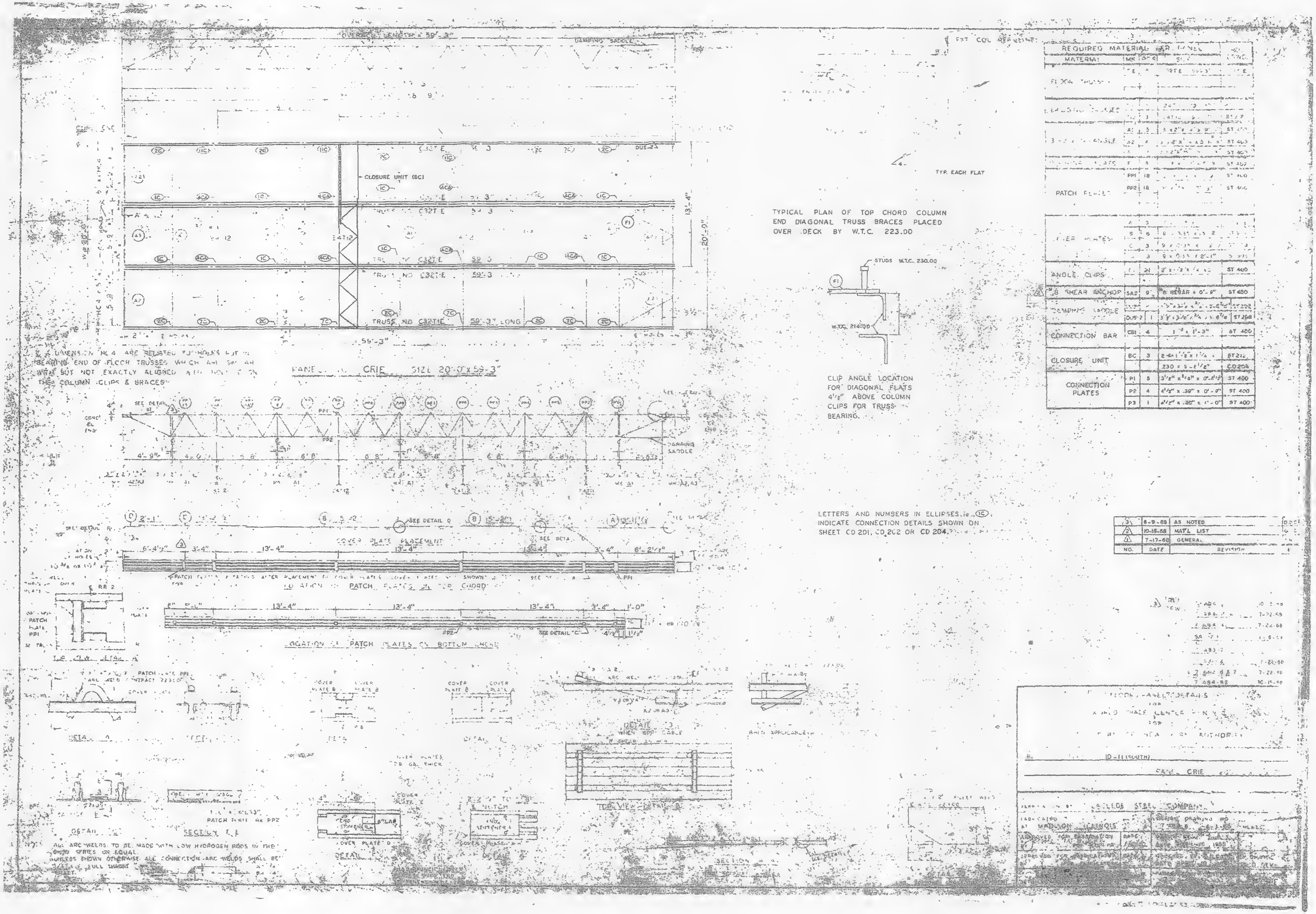
NO.	DATE	REVISION		BY
1	6-9-69	AS NOTED		G.D.

1 REF DRWGS
7-AB4-3 10-15-68
7-AB4-15,16 & 39 7-22-68
7-AB4-4 7-22-68
SA-12A 11-6-69
7-AB3-2 7-3-68
7-AB1-2 7-22-68
7-AB2-6 & 7 7-22-68
7-AB4-42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 (N)
PANEL CRID 20'-0"
BLDG. B FLOORS 81-82 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8
APPROVED FOR FABRICATION BY [illegible] DATE
DRAWN BY [illegible] DATE OCT 23, 1968
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY T.M. CHURCH DATE OCT 23, 1968
DETAILED BY S.A. GONSKA
FABRICATION CONT. NO. [illegible] SHEET [illegible]RID



TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

& DIMENSION HC 4 ARE RELATED TO HOLES IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLES IN THE COLUMN CLIPS & BRACES.

NOTES: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE [illegible] SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/32 [illegible] FULL THROAT FILLET.

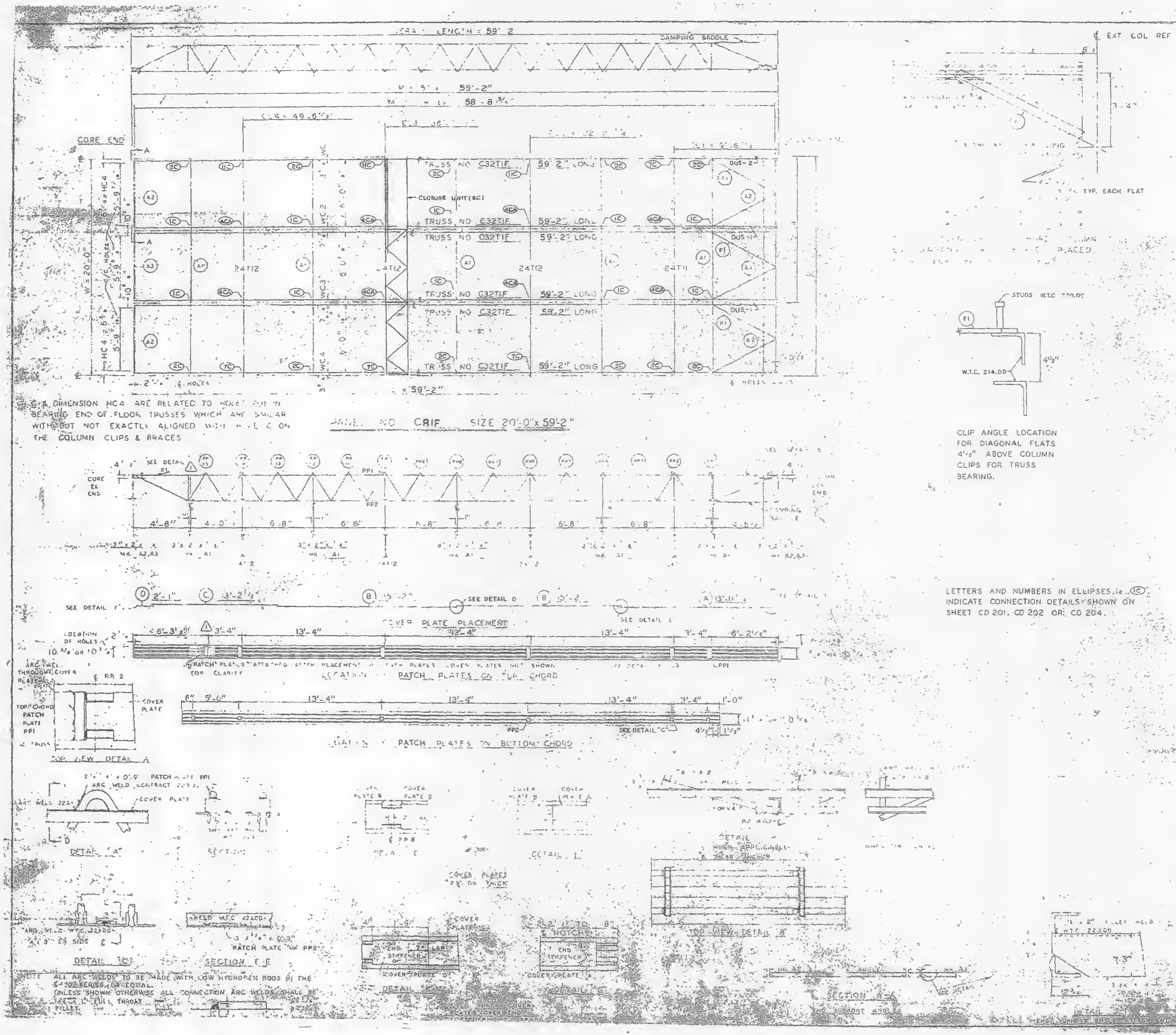
REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible]	[illegible]	[illegible] 59'-3"	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	3	[illegible]	[illegible]
[illegible] ANGLE	A1	3	[illegible]	ST 400
	A2	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
[illegible] PLATES	F	6	[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
[illegible] PLATES	A	3	[illegible]	[illegible]
	B	6	9 x 0.35 x [illegible]	[illegible]
	C	3	9 x 0.35 x [illegible]	[illegible]
	[illegible]	3	9 x 0.35 x 2'-1"	[illegible]
ANGLE CLIPS	[illegible]	21	2" x [illegible]	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	[illegible]	[illegible]	[illegible]	ST 202
	DUS-2	1	3⅞" x 3½" x ¾ x 6⅞"	ST 208
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1½" x 1¼ x	ST 212
			230 x 5-8½"	CD 204
CONNECTION PLATES	P1	5	3½" x [illegible] x 0'-8½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION
3	6-9-69	AS NOTED
2	10-15-68	MAT'L LIST
1	7-17-68	GENERAL

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
PORT OF NEW YORK AUTHORITY

ID-11 (SOUTH)
PANEL CRIE

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION
APPROVED FOR FABRICATION



Ⓒ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH H.S.E. C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1F	6	C32T1F - 59'-2"	ST201F
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x .4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	9"x .0135"x13'-11 1/2"	ST303
	B	6	9"x .0135"x15'-2"	ST303
	C	3	9"x .0135"x13'-2 1/2"	ST303
	D	3	9"x .0135"x2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST402
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	[illegible]
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	[illegible]
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ∠s 1 1/2"x 1 1/4"x	BT212
			230 x 5'-6 1/2"	CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION
⚠1	6-9-69	AS NOTED

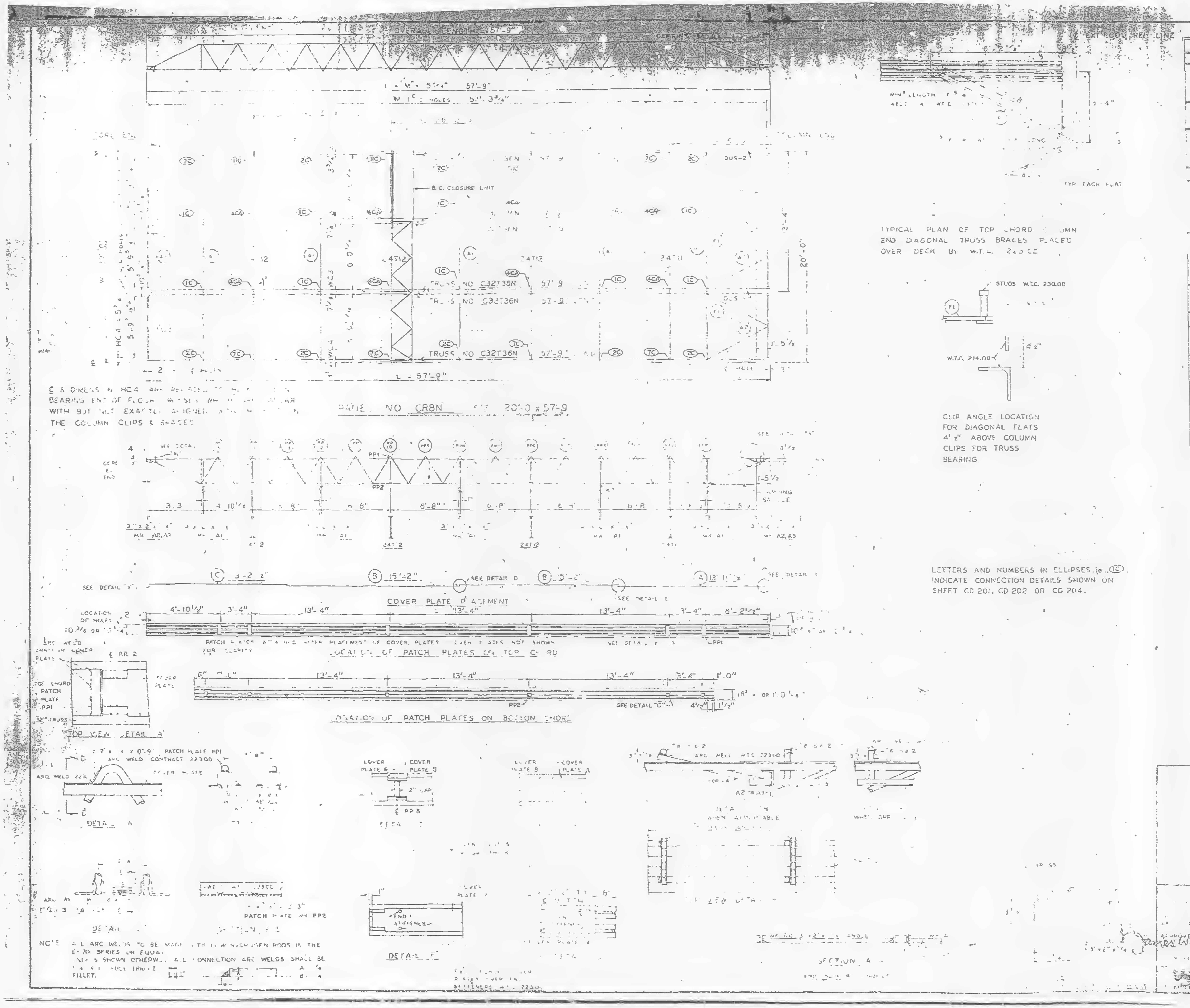
⚠1 REF. DRWG

7-AB4-3	[illegible]
7-AB4-15,16 & 39	7-22-68
7-AB4-41	7-22-68
SA-124	1-8
7-AB3-2	[illegible]
7-AB1-2	7-22
AB2-5 & 7	7-22
7-AB4-42	10-[illegible]

PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-48 (S) 47-48, 70-71 (N)
PANEL CRIF 20' x 59'-2"
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.
DATE [illegible]
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR
DATE
DESIGN DRAWING NO. [illegible]
DRAWN BY [illegible] DATE OCT. 23, 1968
CHECKED TMC DATE OCT. 23



℄ & DIMENSIONS ON HC4 ARE RELATED TO THE FLOOR BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4' 2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FILLET.

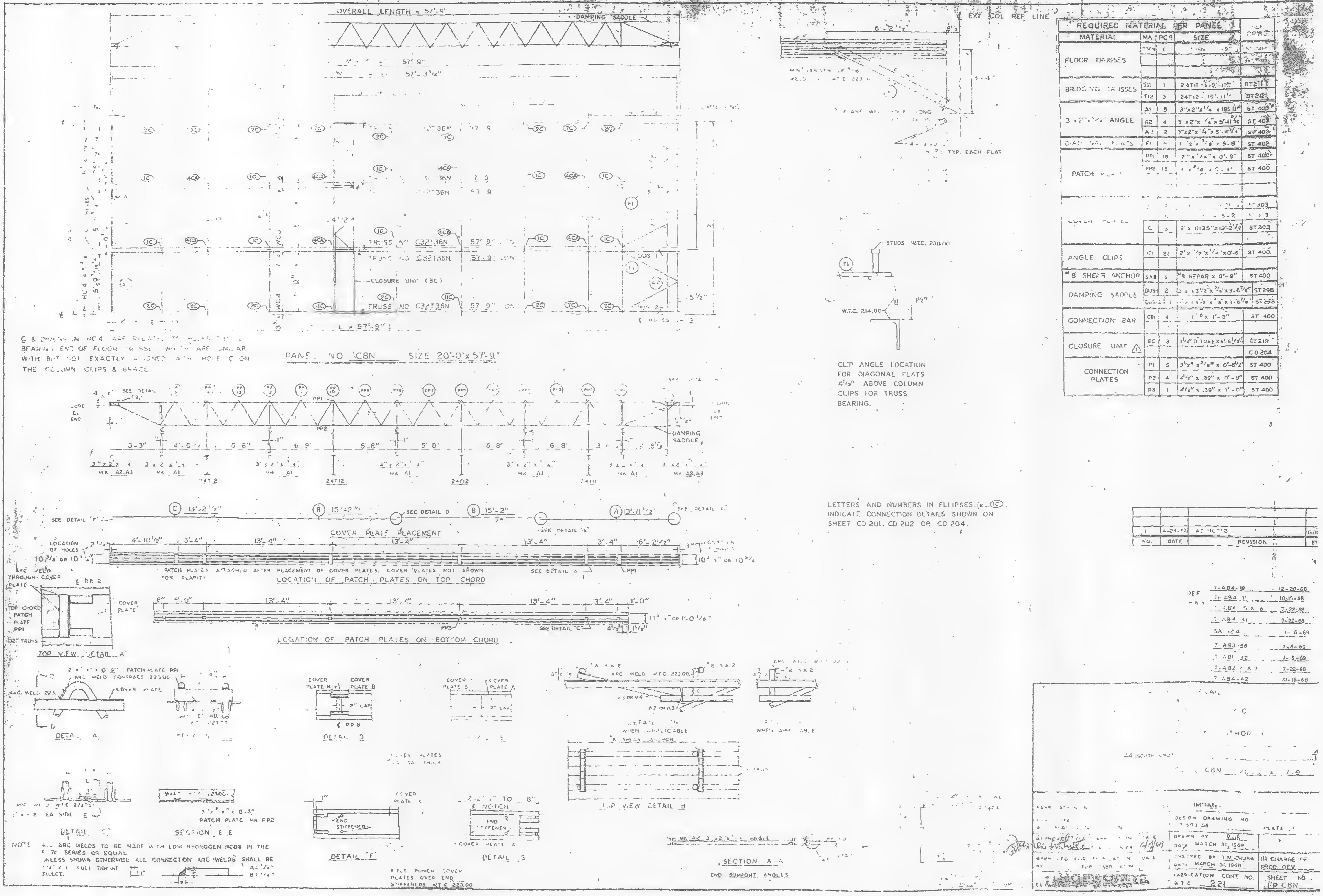
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	T11	1	24 [illegible] 19'-11"	BT211
	T12	3	24 [illegible] 19'-11"	BT212
3 x 2" x 1/4" ANGLE	A1	5	3"x2"x1/4"x19'-1 [illegible]	ST 403
	A2	4	3"x2"x1/4"x5'-11 [illegible]	ST 403
	A3	2	3"x2"x1/4"x5 [illegible]	ST 403
[illegible]	[illegible]	5	[illegible] 7-8	ST 402
PATCH PLATE	PP1	8	[illegible] 9	ST 400
	PP2	8	[illegible]	ST 400
COVER PLATE		3	[illegible]	ST [illegible]
		[illegible]	[illegible]	ST [illegible]
	C	3	3 x .135"x13'-2 1/2	ST303
ANGLE CLIPS	[illegible]	21	2 x 1/2"x1/4"x0'-6	ST 400
#8 SHEAR ANCHOR	SA2	9	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	[illegible]	2	3 x 3 1/2 x 3/8"x3'-6 7/8"	ST298
	[illegible]	[illegible]	[illegible] 2 x 3/8 x 3' 6 7/8	ST298
CONNECTION BAR	CBL	4	[illegible] 1'-3"	ST 400
CLOSURE UNIT ⚠1	BC	3	1 1/4" O TUBE x 6'-6 1/2"	BT212
				CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	4-24-69	AS NOTED	G.D.C.

7-AB4-19 12-20-68
10-15-68
7-23-68
7-22-68
1-6-69
57 1-6-69
32 1-6-69
7-22-68
42 10-12-68

CR8N 7-9

DRAWING NO
3 57
PLATE
DRAWN BY
DATE MARCH 31, 1969
CHECKED BY T.M. CHURA
DATE MARCH 31, 1969
IN CHARGE OF
R&D DEV.
FABRICATION CONT. NO 221
SHEET NO FP CR8N



NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF. DRWG.
FLOOR TRUSSES	36N	6	[illegible]	ST 236
BRIDGING TRUSSES	T11	1	24T11-19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11 9/16	ST 403
	A3	2	3"x2"x¼"x 5'-11¾"	ST 403
DIAGONAL FLATS	F1	[illegible]	1½"x⅜"x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x¼"x 0'-9"	ST 400
	PP2	18	[illegible]x⅜"x 0'-3"	ST 400
COVER PLATES		3	[illegible]	ST 303
			[illegible]	ST 303
	C	3	3'x.0135"x13'-2½	ST 303
ANGLE CLIPS	C1	21	2"x½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA8	5	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3"x3½"x⅜"x3'-6⅞"	ST 298
	DUS2	1	3"x3½"x⅜"x3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1"x 1'-3"	ST 400
CLOSURE UNIT ⚠	BC	3	1¼" O TUBE x 6'-6½"	BT 212
				C 0204
CONNECTION PLATES	P1	5	3½" x⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	4-24-69	AS NOTED	

REF.

7-AB4-19	12-20-68
7-AB4-11	10-15-68
7-AB4-5 & 6	7-22-68
7-AB4-41	7-22-68
SA 124	1-6-69
7-AB3-56	1-6-69
7-AB1-32	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

44 (SOUTH END)

C8N 20'-0" x 57'-9"

DESIGN DRAWING NO 7-AB3-56

PLATE

APPROVED FOR [illegible] DATE 6/17/69

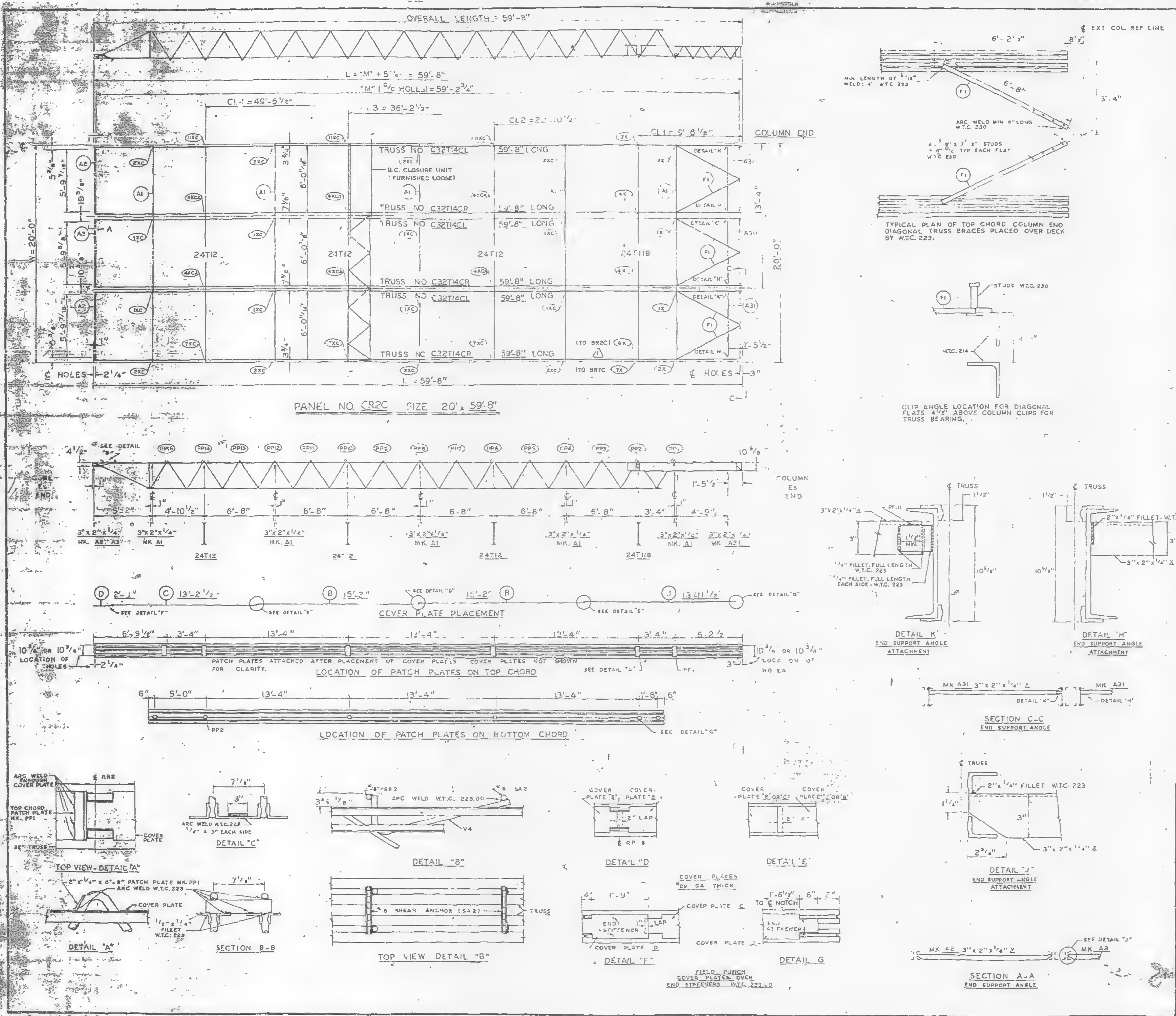
DRAWN BY [illegible]
DATE MARCH 31, 1969

CHECKED BY T.M. CHURA
DATE MARCH 31, 1969

IN CHARGE OF PROD. DEV.

FABRICATION CONT. NO. W.T.C. 221

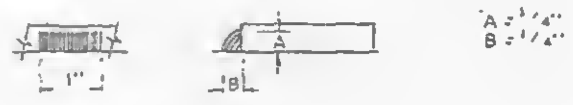
SHEET NO. FP C8N



OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
L3 = 36'-2 1/2"
CL2 = 23'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14CL 59'-8" LONG
B.C. CLOSURE UNIT (FURNISHED LOOSE)
TRUSS NO C32T14CR 59'-8" LONG
24T12
24T118
W = 20'-0"
20'-0"
℄ HOLES
L = 59'-8"
PANEL NO CR2C SIZE 20' x 59'-8"
COLUMN END
3"x2"x1/4" MK. A1
24T12
24T118
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
6'-2 1/2"
℄ EXT COL REF LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "C"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
DETAIL "A"
SECTION B-B
TOP VIEW DETAIL "B"
#8 SHEAR ANCHOR (SA2)
DETAIL "F"
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A END SUPPORT ANGLE
MK A2 3"x2"x1/4" ∡

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" ⌀ 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	1	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF	3	[illegible] x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	[illegible] x 5/8" x 5'-8"	ST 402
PATCH PLATES	PP1	6	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.



A = 1/4"
B = 1/4"

1	5-12-69	AS NOTED
NO.	DATE	REVISION

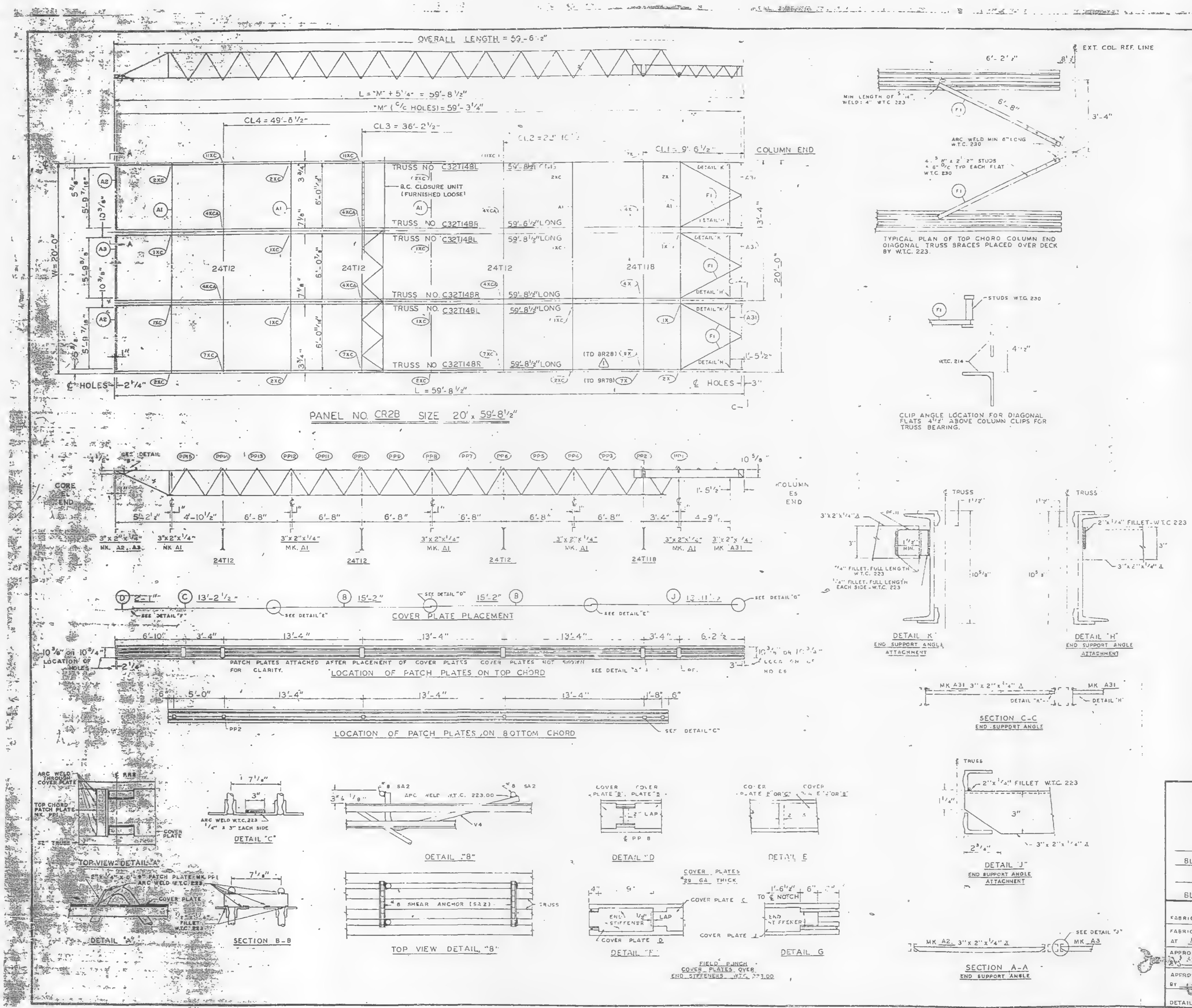
REF. DRWG.

7-AB3-29	10-4-6
7-AB4-28	7-22-6
7-AB1-13	10-4-6
7-AB2-7	7-22-6
7-AB2-15	10-4-6

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

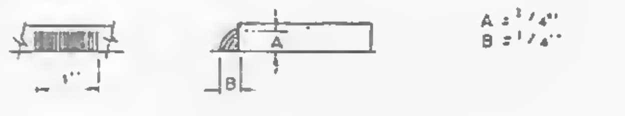
BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL CR2C - 20' x 59'-
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-29
PLATE
APPROVED FOR FABRICATION BY FOR P O N Y A
DATE 6/6/69
DRAWN BY
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY T.M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY
LACLEDE STEEL CO.
FABRICATION CONT NO W.T.C. 221
SHEET NO FP CR2C


OVERALL LENGTH = 59'-6 1/2"
L = "M" + 5 1/4" = 59'-8 1/2"
"M" (C/C HOLES) = 59'-3 1/4"
CL4 = 49'-8 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14BL
B.C. CLOSURE UNIT (FURNISHED LOOSE)
TRUSS NO. C32T14BR 59'-6 1/2" LONG
TRUSS NO. C32T14BL 59'-8 1/2" LONG
TRUSS NO. C32T14BR 59'-8 1/2" LONG
TRUSS NO. C32T14BL 59'-8 1/2" LONG
TRUSS NO. C32T14BR 59'-8 1/2" LONG
24T12
24T118
W=20'-0"
20'-0"
13'-4"
℄ HOLES
L = 59'-8 1/2"
PANEL NO. CR28 SIZE 20' x 59'-8 1/2"
CORE EL END
COLUMN ES END
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "F"
10 3/4" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
EXT. COL. REF. LINE
MIN LENGTH OF 3/16" WELD: 4" W.T.C. 223
ARC WELD MIN 6" LONG W.T.C. 230
4 3/8" x 2 1/2" STUDS @ 6" O/C TYP. EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
TRUSS
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE-W.T.C. 223
2"x1/4" FILLET-W.T.C. 223
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
SECTION C-C END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
MK A3
SECTION A-A END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
TOP VIEW DETAIL "A"
DETAIL "A"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
SECTION B-B
SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TOP VIEW DETAIL "B"
COVER PLATE "B"
COVER PLATE "C"
DETAIL "D"
DETAIL "E"
COVER PLATES 22 GA. THICK
END STIFFENER
LAP
COVER PLATE D
DETAIL "F"
TO ℄ NOTCH
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14BL	3	C32T14BL x 59'-8 1/2"	ST 214BL
	T14BR	3	C32T14BR x 59'-8 1/2"	ST 214BL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" O 6'-6 1/2" TUBE	BT 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A3	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF11	3	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	5	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.



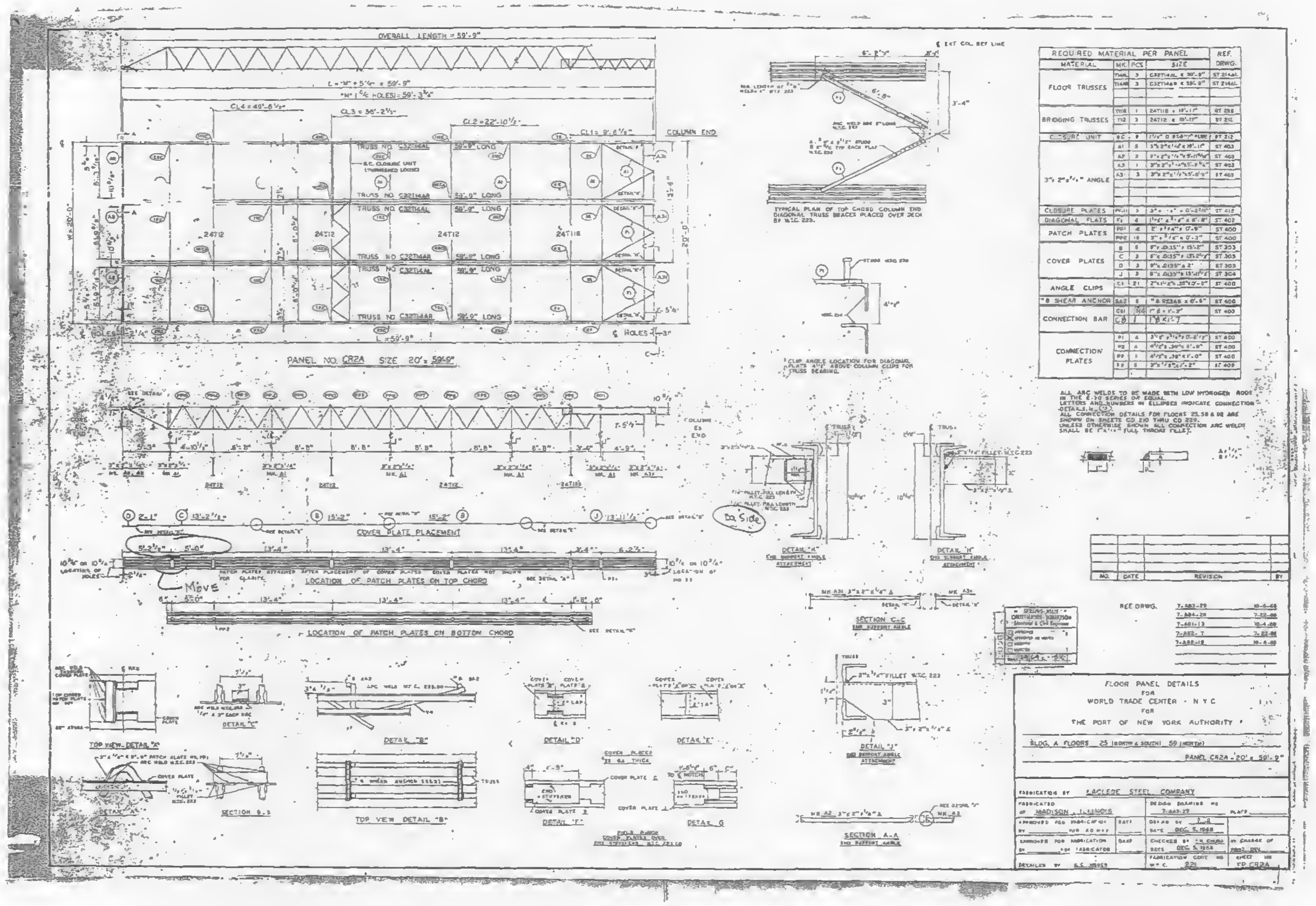
NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.D.C.

REF. DRWG.		
	7-AB3-29	10-4-68
	7-A94-28	7-22-68
	7-AB1-13	10-4-68
	7-AB2-7	7-22-68
	7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)
PANEL CR28 - 20' x 59'-8 1/2"
BLDG. B FLOORS 92 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-29
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 6/6/69
DRAWN BY
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATORS DATE
CHECKED BY T.M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP CR28



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	ST 216
	T12	3	24T12 x 19'-11"	ST 212
CLOSURE UNIT	BC	9	[illegible]	ST 212
3" x 2" x ¼" ANGLE	A1	5	[illegible]	ST 403
	A2	2	[illegible]	ST 403
	A3	1	[illegible]	ST 403
	A3'	3	[illegible]	ST 403
CLOSURE PLATES	PCL1	3	[illegible]	ST 412
DIAGONAL FLATS	F1	4	[illegible]	ST 402
PATCH PLATES	PP1	4	[illegible]	ST 400
	PP2	10	[illegible]	ST 400
COVER PLATES	B	5	[illegible]	ST 303
	C	3	[illegible]	ST 303
	D	3	[illegible]	ST 303
	J	3	[illegible]	ST 304
ANGLE CLIPS	C1	21	[illegible]	ST 400
"Ø SHEAR ANCHOR	SA2	6	[illegible]	ST 400
CONNECTION BAR	CB1	316	[illegible]	ST 403
	CB	1	[illegible]	
CONNECTION PLATES	P1	4	[illegible]	ST 400
	P2	4	[illegible]	ST 400
	P3	1	[illegible]	ST 400
	P9	6	[illegible]	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS.
ALL CONNECTION DETAILS FOR FLOORS 25, 58 & 59 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWG.

7-A83-29	10-4-68
7-A84-28	7-22-68
7-A81-13	10-4-68
7-A82-7	7-22-68
7-A89-18	10-4-68

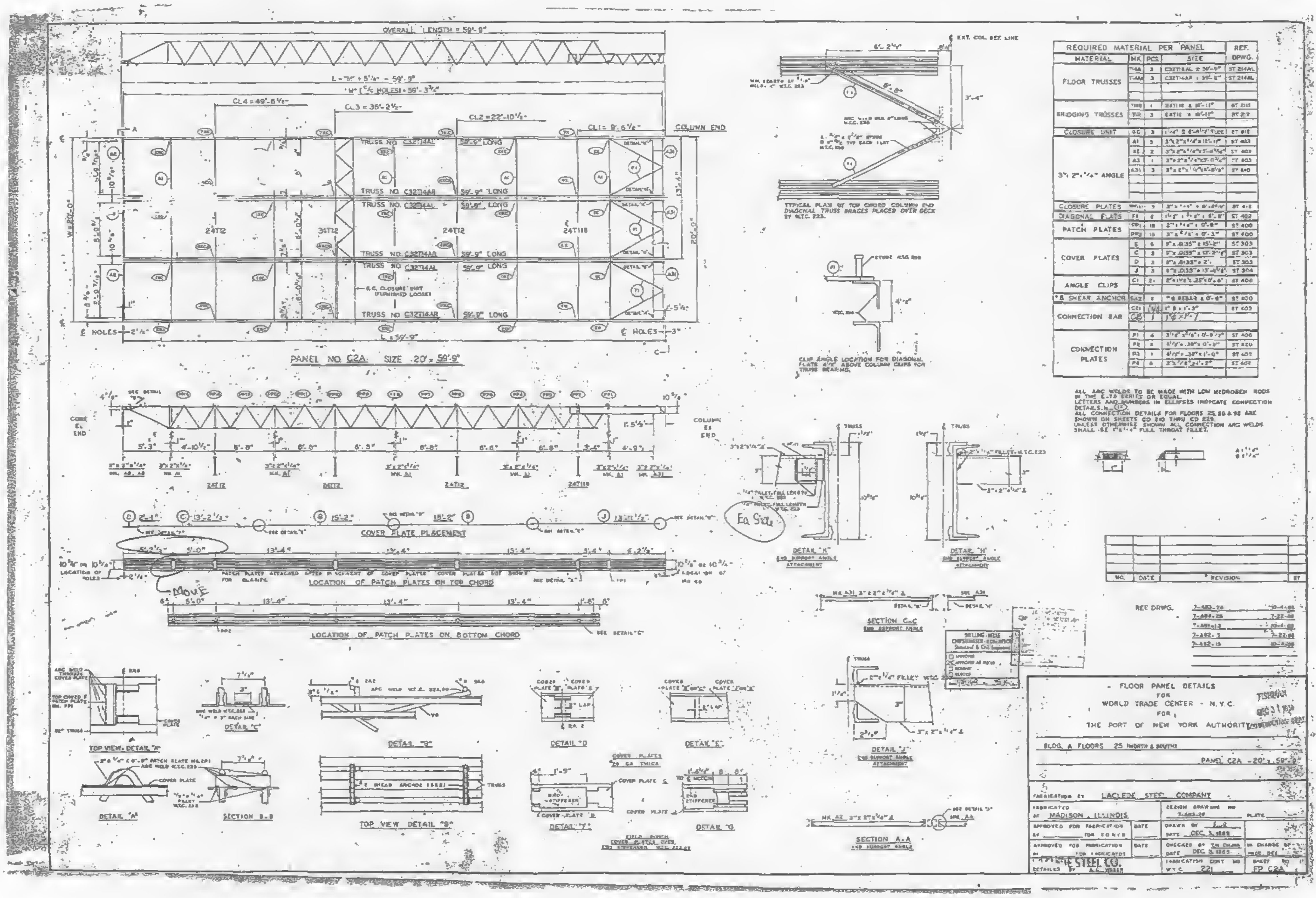
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ REJECTED
☐ REVISE

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL CR2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-29 PLATE
APPROVED FOR FABRICATION BY FOR ARCHITECT DATE
DRAWN BY DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE DEC. 5, 1968
IN CHARGE OF PROJ. DEV.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP CR2A


OVERALL LENGTH = 59'-9"
COLUMN END
PANEL NO. C2A SIZE 20' x 59'-9"
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
S.C. CLOSURE UNIT (FURNISHED LOOSE)
24T12
36T12
24T118
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
Move
Ea Side
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK
CLIP ANGLE LOCATION FOR DIAGONAL
DETAIL "K"
DETAIL "H"
SECTION C-C
DETAIL "J"
SECTION A-A
TOP VIEW DETAIL "P"
DETAIL "C"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "A"
SECTION B-B
TOP VIEW DETAIL "B"
DETAIL "F"
DETAIL "G"

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 18'-11"	ST 213
	T12	3	24T12 x 18'-11"	ST 212
CLOSURE UNIT	SC	3	1¼" ⌀ 6'-8½" TUBE	ST 818
3" x 2" x ¼" ANGLE	A1	5	3"x2"x¼"x12'-11"	ST 403
	A2	2	3"x2"x¼"x5'-8⅝"	ST 403
	A3	1	3"x2"x¼"x5'-0¾"	ST 403
	A31	3	3"x2"x¼"x1'-8½"	ST 410
CLOSURE PLATES	[illegible]	3	[illegible]	ST 412
DIAGONAL FLATS	F1	6	1½" x ⅜" x 4'-8"	ST 402
PATCH PLATES	PP1	18	2" x ¼" x 0'-6"	ST 400
	PP2	18	3" x ¼" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2½"	ST 303
	D	3	9" x .0135" x 2'	ST 303
	J	3	9" x .0135" x 13'-4½"	ST 304
ANGLE CLIPS	C1	21	2" x 1½" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-6"	ST 400
CONNECTION BAR	CB1	[illegible]	1" ⌀ x 1'-3"	ST 403
	CB	1	1"⌀ x 1'-7	
CONNECTION PLATES	P1	4	3½" x ⅜" x 0'-8½"	ST 406
	P2	2	[illegible] x .38" x 0'-9"	ST 4[illegible]
	P3	1	4½" x .38" x 1'-0"	ST 405
	P4	6	3" x ½" x 1'-2"	ST 402

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS.
ALL CONNECTION DETAILS FOR FLOORS 25, 50 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE ¼" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWG.		
	7-A83-28	10-4-68
	7-A84-28	7-22-68
	7-A81-13	10-4-68
	7-A82-7	7-22-68
	7-A82-15	10-4-68

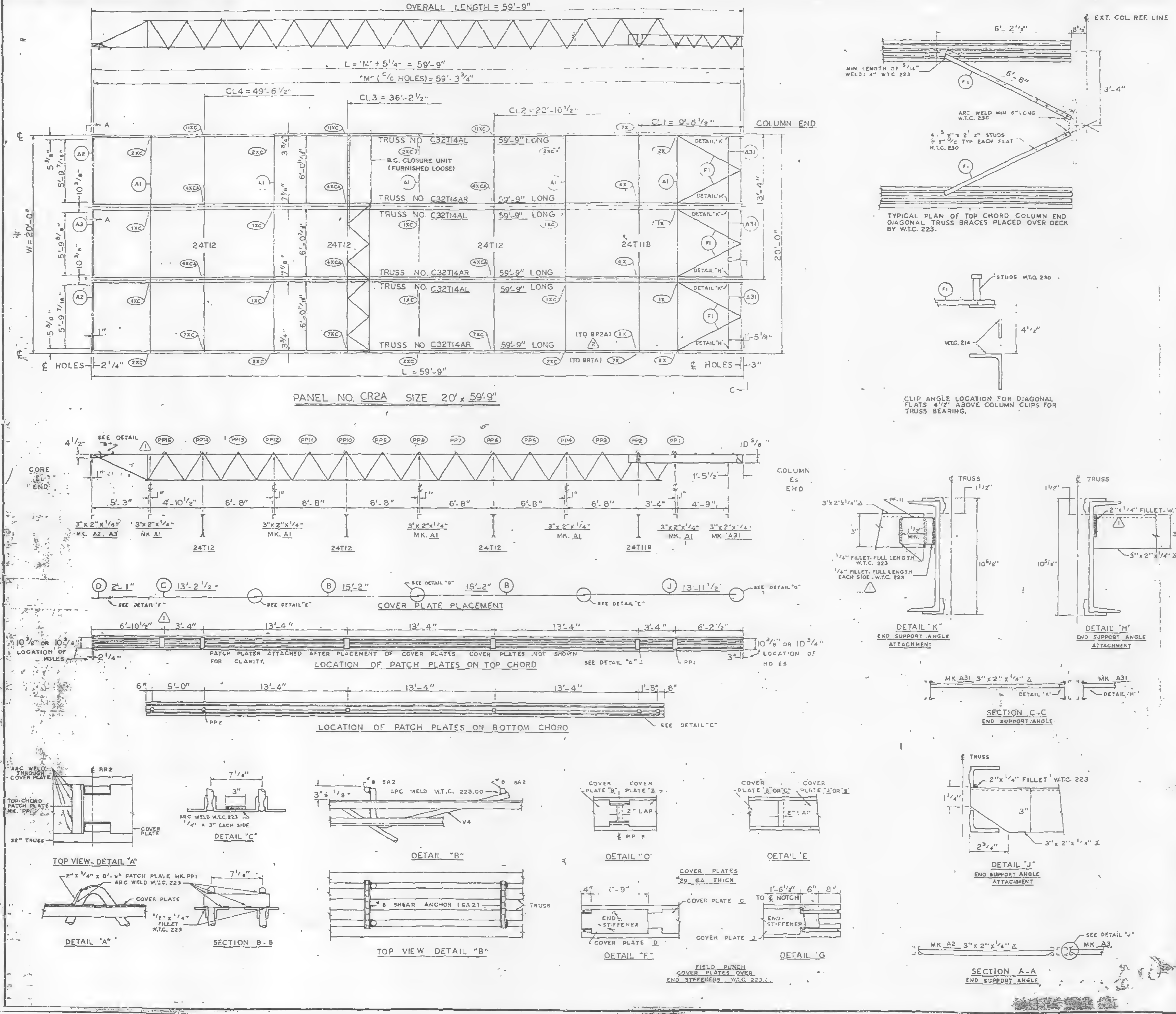
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH)

PANEL C2A - 20' x 59'-9"

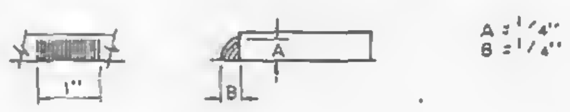
DEC 31 1968

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-28 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY DATE DEC. 3, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.H. CHANG DATE DEC. 3, 1968
IN CHARGE OF
LACLEDE STEEL CO.
DETAILED BY A.E. WELLS
FABRICATION CONT. NO. WTC 221
SHEET NO. FP C2A


OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14AL 59'-9" LONG
B.C. CLOSURE UNIT (FURNISHED LOOSE)
TRUSS NO C32T14AR 59'-9" LONG
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
TRUSS NO C32T14AL 59'-9" LONG
TRUSS NO C32T14AR 59'-9" LONG
24T12
24T12
24T12
24T11B
W = 20'-0"
20'-0"
13'-4"
1'-5 1/2"
(TO BR2A)
(TO BR7A)
DETAIL "K"
DETAIL "H"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-9"
PANEL NO. CR2A SIZE 20' x 59'-9"
SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
CORE END
COLUMN END
5'-3" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
24T12
24T11B
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
COVER PLATE PLACEMENT
6'-10 1/2" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
PP1
LOCATION OF PATCH PLATES ON TOP CHORD
6" 5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE
DETAIL "A"
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
1/2" x 1/4" FILLET W.T.C. 223
SECTION B-B
#8 SA2
ARC WELD W.T.C. 223.00
V4
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
2" LAP
℄ P.P. 8
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATES #29 GA THICK
4" 1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
1'-6 1/2" TO ℄ NOTCH 6" 8"
COVER PLATE J
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223
℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN 6" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230
F1
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
℄ TRUSS
3"x2"x1/4" ∠
PF-11
1 1/2" MIN.
1/4" FILLET, FULL LENGTH W.T.C. 223
1/4" FILLET, FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET - W.T.C. 223
3"x2"x1/4" ∠
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
DETAIL "K"
DETAIL "H"
SECTION C-C END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
1 1/4"
3"
2 3/4"
3"x2"x1/4" ∠
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
MK A3
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" ◻ 6'-6 1/2" TUBE	BT 212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	1	3"x2"x1/4"x5'-11 3/4"	ST 403
	A31	3	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x1/4"x0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	18	2"x1/4"x0'-9"	ST 400
	PP2	18	3"x3/8"x0'-3"	ST 400
COVER PLATES	B	6	9"x.0135"x15'-2"	ST 303
	C	3	9"x.0135"x13'-2 1/2"	ST 303
	D	3	9"x.0135"x2'-1"	ST 303
	J	3	9"x.0135"x13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x3/8"x0'-6 1/2"	ST 400
	P2	4	4 1/2"x.39"x0'-9"	ST 400
	P3	1	4 1/2"x.39"x1'-0"	ST 400
	P9	6	3"x1/2"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.



NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

REF DRWG.		
	7-AB3-29	10-4-68
	7-AB4-26	7-22-68
	7-AB1-13	10-4-68
	7-AB2-7	7-22-68
	7-AB2-15	10-4-68

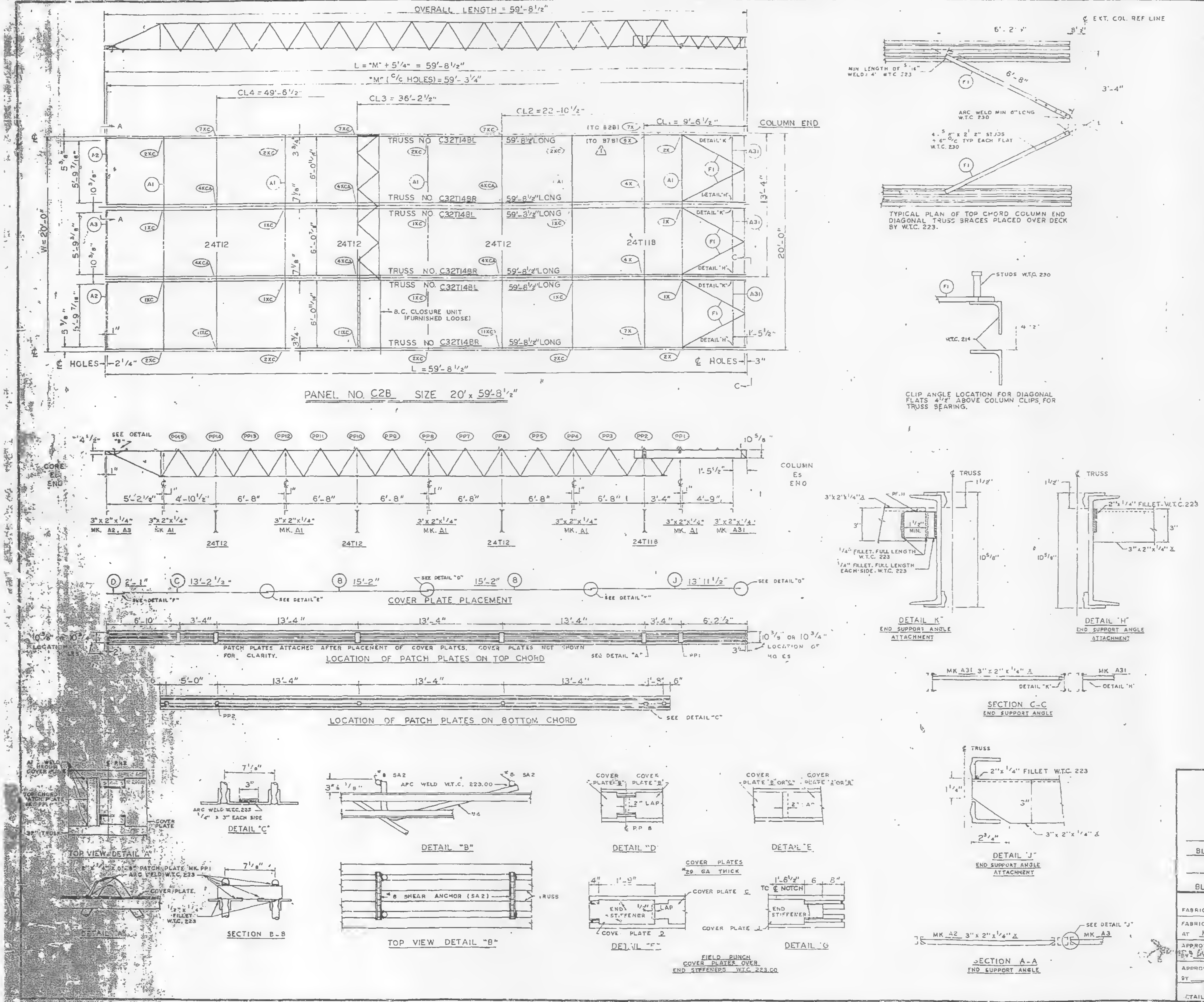
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
PANEL CR2A - 20' x 59'-9"
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-29	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A	DATE 6/6/69	DRAWN BY [illegible] DATE DEC. 5, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE DEC. 5, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. G. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP-CR2A

LACLEDE STEEL CO.


OVERALL LENGTH = 59'-8 1/2"
L = "M" + 5 1/4" = 59'-8 1/2"
"M" (C/C HOLES) = 59'-3 1/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14BL 59'-8 1/2" LONG
TRUSS NO. C32T14BR 59'-8 1/2" LONG
TRUSS NO. C32T14BL 59'-3 1/2" LONG
TRUSS NO. C32T14BR 59'-8 1/2" LONG
TRUSS NO. C32T14BL 59'-8 1/2" LONG
TRUSS NO. C32T14BR 59'-8 1/2" LONG
24T12
24T118
B.C. CLOSURE UNIT (FURNISHED LOOSE)
DETAIL "K"
DETAIL "H"
W = 20'-0"
20'-0"
13'-4"
℄ HOLES
L = 59'-8 1/2"
PANEL NO. C2B SIZE 20' x 59'-8 1/2"
6'-2"
6'-8"
3'-4"
℄ EXT. COL. REF LINE
MIN LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN 6" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
COLUMN ES END
COLUMN END
5'-2 1/2" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
15'-2" B
J 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
6'-10" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
10 3/8" OR 10 3/4" LOCATION OF 40 ES
5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TRUSS
3"x2"x1/4"
PF-11
1/4" FILLET FULL LENGTH W.T.C. 223
1/4" FILLET, FULL LENGTH EACH SIDE. W.T.C. 223
10 5/8"
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET - W.T.C. 223
3"x2"x1/4"
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4"
SECTION C-C
END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
3"x2"x1/4"
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4"
MK A3
SEE DETAIL "J"
SECTION A-A
END SUPPORT ANGLE
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
COVER PLATE "B"
2" LAP
℄ P.P. 8
DETAIL "D"
COVER PLATE "E" OR "C"
COVER PLATE "E" OR "A"
DETAIL "E"
TOP VIEW DETAIL
PATCH PLATE MK. PP1
COVER PLATE
1/2" x 1/4" FILLET W.T.C. 223
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATES #29 GA THICK
4" 1'-9"
END STIFFENER
LAP
COVER PLATE 2
DETAIL "F"
1'-6 1/2" 6 8"
TC NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14BL	3	C32T14BL x 59'-8 1/2"	ST 214BL
	T14BR	3	C32T14BR x 59'-8 1/2"	ST 214BL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" □ 6'-6 1/2" TUBE	BT 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x 1/4" x 0-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9"x .0135" x 15'-2"	ST 303
	C	3	9"x .0135" x 13'-2 1/2"	ST 303
	D	3	9"x .0135" x 2'-1"	ST 303
	J	3	9"x .0135" x 12'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x1 1/2"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

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LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
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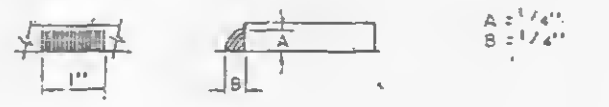
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.O.I.

REF DRWG.

7-AB3-28	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)
PANEL C2B - 20' x 59'-8 1/2"
BLDG. B FLOORS 92 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-28
PLATE
APPROVED FOR FABRICATION BY FOR PONYA DATE 6/6/69
DRAWN BY
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV
DETAILED BY A. C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO. FP C2B